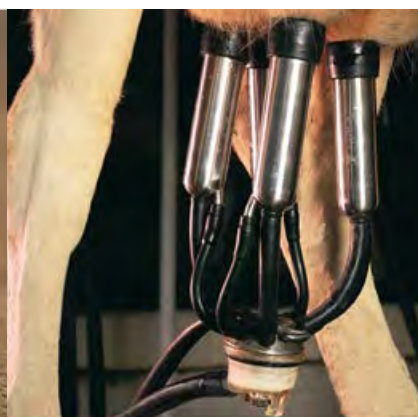




DAIRY RANGE



SKELLERUP
is dairy





All Skellerup rubberware and silicone that comes into contact with milk complies with the NZFSA (New Zealand Food Standards Authority) and is designed for New Zealand dairy conditions.



1. Milk Plug	Pg 12	10. Stainless Steel Shell	Pg 7
2. Long Tail Bend	Pg 11	11. Silicone Milk Tube	Pg 8
3. Cone Seals		12. Milking Liner	Pg 5
4. 2 Hole Dropper Link		13. Twin Air Tube	Pg 8
5. Rubber Jetter Cup	Pg 10	14. Single Air Tube	Pg 8
6. Bend	Pg 11	15. Snap Clamp	Pg 12
7. Shut-off Valve	Pg 12	16. 3 Hole Dropper Link	
8. Claw/Pulse Tube	Pg 9	17. Rubber Milk Tube	Pg 8
9. Claw Bowl	Pg 13	18. Mastitis Detector	Pg 21



Skellerup has been a supplier of dairy rubberware to the New Zealand Dairy Industry for more than 60 years, we are committed to innovation, quality and leading the dairy industry.

Our brands - VacPlus, SilcPlus and Reflex - have been specifically designed to offer unique product benefits to New Zealand dairy farmers. We are proud to have developed a wide range of dairy farming products designed, tested and manufactured in New Zealand, for New Zealand's unique dairy farming conditions.

MILKING LINERS	4-6
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2500 CHANGE	22-23

The milking liner is the key interface between the milking machine and the cow.

- Skellerup’s milking liner range is designed and manufactured in New Zealand to specifically match cow herds to the many different configurations of milking equipment represented on New Zealand dairy farms.
- The milking liner has the greatest impact on milking efficiency, hygiene and cow comfort, more than any other milking machine component.
- All Skellerup VacPlus and Reflex liners are made from the highest quality materials and meet the New Zealand Food Standards Authority (NZFSA) regulations.
- All Skellerup ‘M’ liners are multi-fit and designed to fit most milking claws.
- Vacuum shut-off (SO) liners have a vacuum shut-off groove on the tail that activates as the cluster is turned over at cupping-on, stabilizing vacuum and helping to reduce cross contamination of mastitis from infected cows to others in the herd. The shut-off also helps reduce pressure on the liner where it connects to the milking claw nipple. Cows with 3 teats can be easily milked with shut-off liners and they are compatible with most milking systems in New Zealand.



Milking liner mouth-piece sizes
21mm mouth-piece = Jersey herd
22mm mouth-piece = Cross-breed/ mixed herd
23mm mouth-piece = Friesian herd

Vacuum shut-off milking liners
Use with milking claws that have straight milk inlet nipples (refer to page 7 for more information).

Tension rings
T1 = Use for shells 150-155mm
T2 = Use second tension ring for short shells only (140mm – Reflex M22 - RIX1092)



VACPLUS SQUARE MILKING LINER		
LINER	SELLING UNIT	CODE
VacPlus Square M22 SO	Box of 4	RIL1194
VacPlus Square M22	Box of 4	RIL1193
VacPlus Square M23	Box of 4	RIL1091
VacPlus Square ST22	Box of 4	RIL149
SO - Vacuum Shut-off		



REFLEX MILKING LINER		
LINER	SELLING UNIT	CODE
Reflex M21	Box of 4	RIX1195
Reflex M22	Box of 4	RIX1092
Reflex M22 SO	Box of 4	RIX1008
Reflex M23	Box of 4	RIX1196
Reflex LT 22W*	Box of 4	RIX815

*Fits Westfalia shell and DeLaval shell with oval short milk tube hole

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

As liners age, their shape, tension and surface condition changes gradually. This gradual deterioration can have subtle but significant effects on their milking characteristics. Both the internal surface and the milking performance of liners tends to deteriorate more quickly soon after they reach their designated use-by-date.

AS A GENERAL RULE OF THUMB, IF YOU NOTICE AN IMPROVEMENT IN MILKING PERFORMANCE AFTER REPLACING LINERS, THE OLD ONES WERE USED FOR TOO LONG!

As liners age and stretch, several key features of their milking performance alter, in particular:

- Average milking time per cow increases
- Frequency of liner slips increases
- Amount of milk left in the quarters of an udder when cups are removed increases
- Teat-end condition worsens

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


Refer to page 22 and 23 for further liner information.

CONVERSION		
OLD LINERS	NEW LINERS	CODE
RIL104 VacPlus Square ST SO	VacPlus Square M22 SO	RIL1194
RIL105 VacPlus Square LT SO		
RIL149 VacPlus Square ST NS	VacPlus Square M22	RIL1193, RIL149
RIL150 VacPlus Square LT NS	VacPlus Square M22	RIL1193
RIL1091 VacPlus Square M23	VacPlus Square M23	RIL1091
RIX545 Reflex ST 21	Reflex M21	RIX1195
RIX814 Reflex LT 21		
RIX662 Reflex ST 22	Reflex M22	RIX1092
RIX877 Reflex LT 22		
RIX815 Reflex LT 22W	Reflex LT 22W	RIX815
RIX1092 Reflex M22	Reflex M22	RIX1092
RIX1008 Reflex M22 SO	Reflex M22 SO	RIX1008
RIX867 Reflex ST 23	Reflex M23	RIX1196
RIX813 Reflex LT 23		


SHELL TYPES

For best results we recommend changing tapered shells to straight sided shells. Some shells may have been cut down.

Long straight shell




150-155mm




17mm - 19mm ID

Short straight shell




140mm




20mm ID
Reflex M22 only

Westfalia shell




147mm




27mm ID
Reflex LT22 W only

DeLaval shell with oval short milk tube hole




152mm




24mm - 27mm ID
Reflex LT22 W only

Monokura flared shell




152mm

Milfos shell



155mm

Stainless steel shells



153mm

SHELL VARIETY	SELLING UNIT	CODE
Long straight-sided shell	Each	RRT205
Lightweight straight-sided shell	Each	RRT210



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



SILICONE / PVC TUBING



SILCPLUS

ADVANCED FORMULATION SILICONE DAIRY TUBING

SilcPlus has been developed for New Zealand dairy operations. The manufacturing process allows the tubing to retain double the strength of other products in the market, and an increased life-expectancy under normal operating conditions.

- Resists splitting, tearing and perishing
- Low absorbency, resists discolouring, easily cleaned
- Milk-flow easily observed

Size recommendations

14mm ID fits 16mm OD stainless steel tube
16mm ID fits 19mm OD stainless steel tube



SILCPLUS SILICONE MILK TUBE

TUBING MEASUREMENT	SELLING UNIT	CODE
14mm x 5mm x 1220mm	Box of 6	TTW541
14mm x 5mm x 20M	Each	TTW631
16mm x 5mm x 1220mm	Box of 4	TTW941
16mm x 5mm x 20M	Each	TTW031

SILCPLUS SILICONE AIR TUBE - SINGLE

TUBING MEASUREMENT	SELLING UNIT	CODE
10mm x 4mm x 1220mm	Box of 6	TTW641
10mm x 4mm x 20M	Each	TTW731

SILCPLUS SILICONE AIR TUBE - TWIN

TUBING MEASUREMENT	SELLING UNIT	CODE
7mm x 3.5mm x 1220mm	Box of 6	TTW141
7mm x 3.5mm x 20M	Each	TTW231

PVC AIR TUBE - SINGLE

TUBING MEASUREMENT	SELLING UNIT	CODE
9.5mm x 3.8mm x 25M	Each	RMC205

PVC AIR TUBE - TWIN

TUBING MEASUREMENT	SELLING UNIT	CODE
6.9mm x 2.8mm x 25M	Each	RMC215

For best results replace silicone tubing when damaged or discoloured (milk fat absorption).



RUBBER TUBING



BEST FIT FOR HERD

Tubing measurement

ID = Internal Diameter
OD = Outside Diameter

ID mm x wall thickness
mm x length

E.g. TMW224 = 12.7mm ID x 5.6mm wall thickness x 1220mm length of tube



1 Blue line
= 12.7mm ID
Fits 16mm OD
stainless steel tube

2 Blue lines
= 14mm ID
Fits 16mm & 19mm OD
stainless steel tube

3 Blue lines
=15.9mm ID
Fits 19mm OD
stainless steel tube



REFLEX RUBBER MILK TUBE

TUBING MEASUREMENT	SELLING UNIT	CODE
12.7mm x 5.6mm x 1220mm	Box of 12	TMW224
12.7mm x 5.6mm x 20M	Each	TMW233
14mm x 5.6mm x 1220mm	Box of 12	TMW244
14mm x 5.6mm x 20M	Each	TMW253
15.9mm x 5.6mm x 1220mm	Box of 12	TMW344
15.9mm x 5.6mm x 20M	Each	TMW353

REFLEX RUBBER AIR TUBE - SINGLE

TUBING MEASUREMENT	SELLING UNIT	CODE
9.5mm x 4.8mm x 1220mm	Box of 12	TMW164
9.5mm x 4.8mm x 20M	Each	TMW173

REFLEX RUBBER AIR TUBE - TWIN

TUBING MEASUREMENT	SELLING UNIT	CODE
7mm x 3.5mm x 1220mm	Box of 12	TMW014
7mm x 3.5mm x 20M	Each	TMW023

REFLEX RUBBER CLAW / PULSE TUBE

TUBING MEASUREMENT	SELLING UNIT	CODE
7mm x 165mm	Box of 24	RTS761
7mm x 190mm	Box of 24	RTS762
7.9mm x 178mm	Box of 24	RTS244

For best results rubber milk tubing should be replaced every season.



REFLEX RUBBER TUBING - SUCTION TUBE

TUBING MEASUREMENT	SELLING UNIT	CODE
22.2mm x 7.9mm x 3.66M	Each	TMW649
28.6mm x 9.5mm x 3.66M	Each	TMW739
35mm x 9.5mm x 3.66M	Each	TMW799

Size recommendations for Reflex Suction tubing

22.2mm ID fits 25mm OD, 28.6mm ID fits 32mm OD, 35mm ID fits 38mm OD.

REFLEX RUBBER TUBING - JETTER WASH HOSE

TUBING MEASUREMENT	SELLING UNIT	CODE
47mm x 10mm x 3.66M	Each	TMD949

JETTER CUPS

	SELLING UNIT	CODE
Reflex No.1 44mm mouth	Packet of 4	RRJ152
Variflow 45mm mouth	Packet of 4	RRJ668
Hyjet Mk10 44mm mouth	Packet of 4	RRJ005



RRJ152



RRJ668



RRJ005

Jetter Cup Compatibility

Reflex No.1 Jetter cups are compatible with Waikato No.1 Jetters.

Variflow Jetter cups are compatible with Westfalia Jetters.



REFLEX RUBBER BENDS

TUBING MEASUREMENT	SELLING UNIT	CODE
Fits 19mm	Each	RRQ159
Fits 32mm	Each	RRQ287
Fits 38mm	Each	RRQ351
Fits 50mm	Each	RRQ480

REFLEX LONG TAIL BENDS

TUBING MEASUREMENT	SELLING UNIT	CODE
Fits 16mm	Packet of 6	RRL127
Fits 19mm	Packet of 6	RRM160
Fits 16-19mm (increasing)	Packet of 6	RRA128
Fits 19-16 (decreasing)	Packet of 6	RRA161

REFLEX RUBBER SLEEVES

TUBING MEASUREMENT	SELLING UNIT	CODE
Fits 38mm	Each	TRS357
Fits 50mm	Each	TRS488

Measurement guide for Reflex Bends & Sleeves

Recommendations are for the outside diameter (OD) of stainless steel tubing.
12.7mm ID fits 16mm OD, 15.9mm ID fits 19mm OD, 28.6mm ID fits 32mm OD,
35mm ID fits 38mm OD, 48mm ID fits 50mm OD.



Rubber Bends



Milk Flow Direction

Long Tail Bend

Long tail bends are measured from the longer end, following the milk flow.



Rubber Sleeve

For best results replace any rubberware that comes into contact with milk every season, and other rubberware when perished, cracked or damaged.



REFLEX RUBBER MILK PLUGS

TUBING MEASUREMENT	SELLING UNIT	CODE
Fits 38mm	Packet of 2	RRP841
Fits 50mm	Packet of 2	RRP857

REFLEX SHUT-OFF VALVES

TUBING MEASUREMENT	SELLING UNIT	CODE
Fits 38mm	Each	RRS405
Fits 50mm	Each	RRS410

Measurement guide for Shut-off Valves

Recommendations are for the outside diameter (OD) of stainless steel tubing.
35mm ID fits 38mm OD, 48mm ID fits 50mm OD.

STAINLESS STEEL SNAP CLAMPS

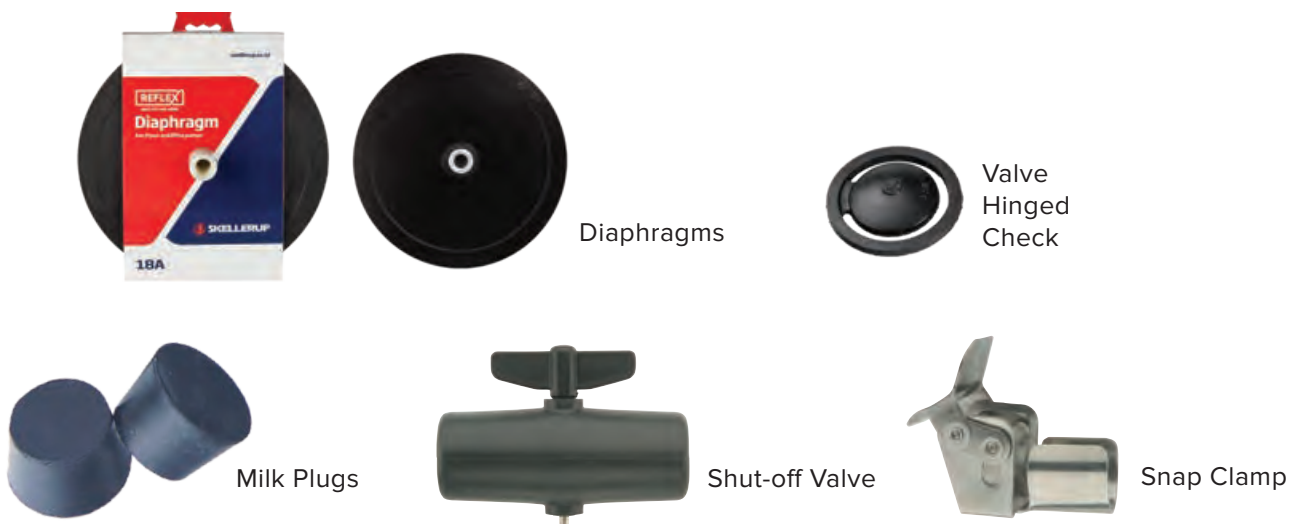
TUBING MEASUREMENT	SELLING UNIT	CODE
Fits 12.7-15.9mm Milk tube	Each	RRS105

MILK PUMP PARTS - DIAPHRAGMS

DIAPHRAGMS	SELLING UNIT	CODE
Reflex 18A Nylon Insert	Each	RDR015
Flynn 18A Aluminium Insert	Each	RDR020

MILK PUMP PARTS - OTHER

	SELLING UNIT	CODE
Valve Hinged Check	Each	RRS293



CLAW BOWLS

CLAW BOWL	SELLING UNIT	CODE
280ml for 12.7mm tubing (U)	Each	RMP061
280ml for 15.9mm tubing (U)	Each	RMP071
330ml for 15.9mm tubing (U)	Each	RMP081

ACCESSORIES & SPARES

	SELLING UNIT	CODE
Visi Claw Seal Ring 4125	Packet of 2	RRM110
Visi Sight Claw Dome no hole 3056	Packet of 2	RCM120
Visi Sight Claw Dome with hole 3057	Packet of 2	RCM130
Visi Sight Claw Circlip 3058	Packet of 2	RCM140

Claw bowls come as complete unit.

U on the side of the claw bowl means the bowls are compatible with some DeLaval claws.



RMP061



RMP081

Volume 280ml / 330ml. Milk outlet 16mm or 19mm.



RRM110



RCM130

hole



RCM140

TEST BUCKET RUBBER SEAL

	SELLING UNIT	CODE
Bucket Seal Square Cut 279 x 9.5 x 9.5mm	Each	RRT030

REFLEX SEAL RINGS

	SELLING UNIT	CODE
Grooved V12 279 x 14 x 26mm	Each	RRV020
Grooved MR5 330 x 15 x 15mm	Each	RRV040



RRT030

Cross section



RRV020

Cross section



RRR040

Cross section

For best results replace any rubberware that comes into contact with milk every season, and other rubberware when perished, cracked or damaged.



REFLEX FILTER SOCKS - SEALED ONE END

DIMENSIONS	REF	SELLING UNIT	CODE
75mm x 610mm	P	Packet of 100	RMF210
125mm x 830mm	Q	Packet of 100	RMF227
140mm x 980mm	O	Packet of 100	RMF198
150mm x 610mm	U	Packet of 100	RMF320
150mm x 830mm (Also suits 150mm x 790mm)	R/V	Packet of 100	RMF285
225mm x 800mm	S	Packet of 100	RMF305
230mm x 850mm	T	Packet of 100	RMF310
230mm x 1100mm	W	Packet of 100	RMF341
310mm x 1060mm	X	Packet of 100	RMF311

REFLEX FILTER SLEEVES - OPEN ENDED

DIMENSIONS	REF	SELLING UNIT	CODE
100mm x 610mm	B	Packet of 100	RMF215
100mm x 760mm	C	Packet of 100	RMF225
125mm x 830mm	L	Packet of 100	RMF350
140mm x 980mm (Also suits 140mm x 930mm)	N/J	Packet of 100	RMF197
150mm x 610mm (Also suits 150mm x 585mm)	A/H	Packet of 100	RMF220
150mm x 790mm (Also suits 150mm x 760mm)	D/I	Packet of 100	RMF275
150mm x 880mm	E	Packet of 100	RMF200
230mm x 850mm	F	Packet of 100	RMF345
230mm x 1100mm	G	Packet of 100	RMF340
320mm x 570mm	K	Packet of 100	RMF570
320mm x 750mm	M	Packet of 100	RMF575

FILTER SPARES

	SELLING UNIT	CODE
Filter Keeper F76/4 for 100mm	Packet of 2	RRR124
Filter Keeper F102/4 for 150mm	Packet of 2	RRR121

Always use a NEW milk filter for every milking.

SKELLERUP MILK FILTERS

- Filter sizes are measured flat in a collapsed position. Eg. 75mm diameter filter cage takes a 100mm wide filter.
- Filters have been coded with an easy-to-identify letter relating to each size for your convenience
- Some filters are only available ex-factory



All Skellerup milk filters meet the New Zealand Food Standards Authority (NZFSA) regulations.



Peach Teats for any feeder

There is a Peach Teat available to fit any Stallion, Milk Bar or McKee calf feeder and any feeder with a 19-22mm teat hole.

- **Rapid acceptance - calves latch on and stay on**
- **Simulates a cow's natural milk let down**
- **Designed to function like a real cow's teat, moving all the time while the calf is suckling**
- **Ideal for weak and sick calves**
- **Peach Teats threaded attachment method means easy removal for cleaning or replacement**
- **Peach Teat Easy-fit Adaptor converts feeders from pull-through to threaded**

PEACH TEATS

	SELLING UNIT	CODE
Peach Teat Threaded Black	Box of 50	RMT758
Peach Teat Threaded Pink	Box of 50	RMT777
Peach Teat Pull Through Black	Box of 50	RMT762
Peach Teat Easy-Fit Adaptor	Box of 50	RMT700



SKELLERUP TEATS

	SELLING UNIT	CODE
Long Standard Bore	Bag of 40	RMT430
Long Standard Bore	Bag of 50	RMT732
Universal Nursing Teat	Bag of 20	RRG635



TUBE FEEDER ACCESSORIES

	SELLING UNIT	CODE
Tubing 6mm x 4mm x 30M	Each	RMC145
Nylon Non Return Valve	Packet of 10	RMC120



There is a milk opening on each side of the nipple, situated so that the crown of the nipple remains intact and ensures that the teat is leak resistant.



The non-return valve never closes in its relaxed state so it cannot be blocked.

NOZZLES



MASTER BLASTER NOZZLE

- Made from hard wearing nylon
- Delivering up to 450L per minute
- Eco-friendly, using up to 30% less water than similar nozzles
- Features a double 'O' ring for ease of use



POWER JET NOZZLE

- Ideal for yard washing & high volume/pressure applications
- Features a double 'O' ring for ease of use
- Adjustable spray pattern from strong jet to fine fog



JETSPRAY NOZZLE

- Ideal for high pressure cleaning



PIT HOSE NOZZLE

- Ideal for high pressure cleaning in the dairy shed

MASTER BLASTER NOZZLES & TAILPIECES

	SELLING UNIT	CODE
Master Blaster Nozzle only	Packet of 5	JRT3005
32mm Master Blaster Tailpiece	Packet of 5	JNT4325
38mm Master Blaster Tailpiece	Packet of 5	JNT3385

POWER JET NOZZLES & TAILPIECES

	SELLING UNIT	CODE
Power Jet Nozzle only	Packet of 5	JNT0505
25mm Power Jet Tailpiece	Packet of 5	JNT0655
32mm Power Jet Tailpiece	Packet of 5	JNT0725
38mm Power Jet Tailpiece	Packet of 5	JNT0785

JETSPRAY NOZZLES & TAILPIECES

	SELLING UNIT	CODE
Jetspray Nozzle only	Packet of 5	JRT2195
19mm Jetspray Tailpiece	Packet of 5	JNT3195
25mm Jetspray Tailpiece	Packet of 5	JNT3255

OTHER NOZZLES

	SELLING UNIT	CODE
Pit Hose Nozzle only	Each	JNT100
Power Spray Nozzle only	Each	JNT101
Teat Spray Nozzle	Box of 25	RRT000



POWER SPRAY NOZZLE

- Ideal for washing equipment in the dairy shed



TEAT SPRAY NOZZLE

- Designed specifically for teat washing

HOSE & FITTINGS



- Made in New Zealand to withstand high pressure and abrasive working conditions
- Regular working pressure is 1/3 of the maximum pressure ratings listed below

DAIRY SHED WASHDOWN HOSE

	SELLING UNIT	CODE
19mm, 20M Coil	Each	HUW219
19mm, 60M Coil	Each	HUW519
25mm, 20M Coil	Each	HUW225
25mm, 60M Coil	Each	HUW525
32mm, 20M Coil	Each	HUW232
32mm, 60M Coil	Each	HUW532
38mm, 20M Coil	Each	HUW238
38mm, 60M Coil	Each	HUW538

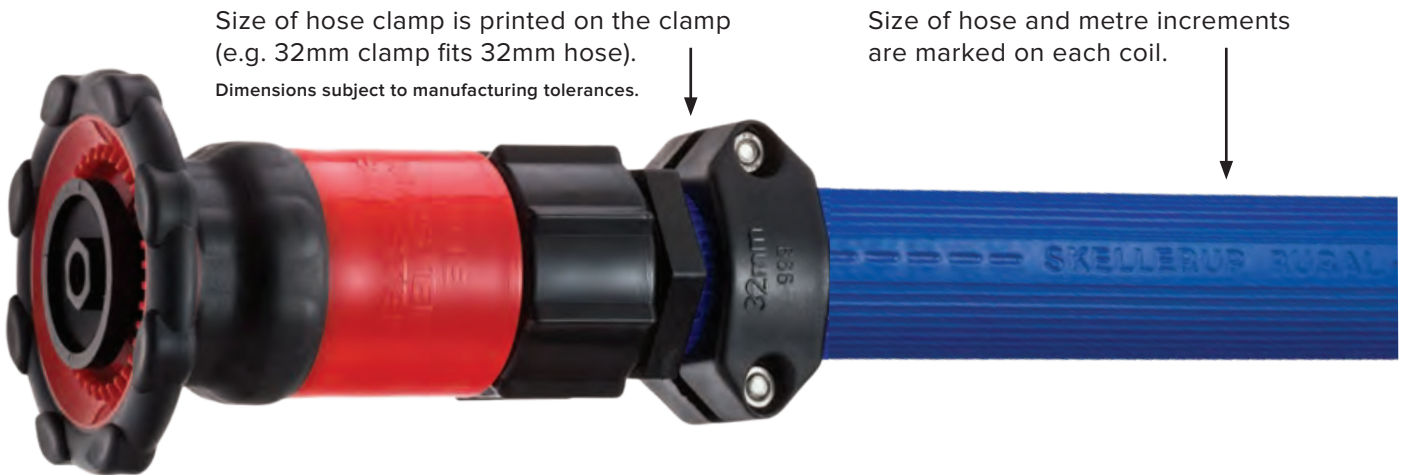
WASHDOWN HOSE CLAMPS

	SELLING UNIT	CODE
25mm Hose Clamp	Packet of 2	JNT525
32mm Hose Clamp	Packet of 2	JNT532
38mm Hose Clamp	Packet of 2	JNT538

ID	BURST		
	MPa	PSI	BAR
19mm	4.50	550	37
25mm	4.80	450	31
32mm	5.50	500	34
38mm	4.50	600	41

Temperature rating -10°C to 40°C





NYLON HOSE CLAMPS





AMBIC
 TEAT SPRAY UNIT - RAT100

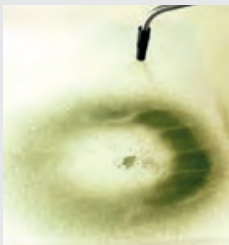
- Ambic vacuum operated teat sprayers offer a fast and efficient method of mastitis prevention for the dairy herd.
- The Ambic system can be installed in under two hours, and runs off the dairy plant vacuum (no electricity required).
- Annual servicing of the directional valve and replacement of the air filter takes 5 minutes and is all that is necessary to ensure on-going trouble free operation.
- The unit comes complete with 1 gun

EXTENSION KITS & SPRAY GUNS			
DESCRIPTION	SELLING UNIT	CODE	PRODUCT
Extension Kit incl. classic metal lance <i>Requires delivery tubing</i>	Each	RAT418 Incl. RAT420 Gun	
Extension Kit incl. plastic lance gun <i>Requires delivery tubing</i>	Each	RAT514 Incl. RAT502 Gun	
Spray Gun - classic metal lance	Each	RAT420	
Spray Gun - plastic extended lance	Each	RAT502	

SPRAY GUN
 PATTERN FEATURES

- Solid cone spray pattern of the RAT502 greatly assists the operator in achieving good teat coverage
- Longer lance improves reach to front teats
- An impact protector on the end of the lance guards against damage
- Available as an individual lance, complete gun and extension kit
- Lance will fit old style plastic lance guns

It is recommended that teats be sprayed within 30 seconds of cup removal!




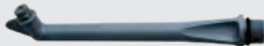














Adjustable nozzle spray pattern
Classic metal lance (RAT420)



Solid cone nozzle spray pattern
Plastic extended lance (RAT502)



Ambic is a world leader in the design and manufacture of mastitis prevention equipment. All Ambic products are made from the highest quality chemical resistant materials and proven components.

DESCRIPTION	SELLING UNIT	CODE	PRODUCT
Spray Gun Lance - metal 152mm	Each	RAT403	
Spray Gun Lance - plastic extension	Each	RAT504	
Spray Gun nozzle - metal lance	Each	RAT415	
Spray Gun nozzle - plastic lance	Each	RAT416	
Control Valve Spray Gun	Each	RAT405	
Gun end fitting	Each	RAT432	
Lever Handle - for spray gun	Each	RAT439	
T Connector	Each	RAT407	
Straight Connector	Packet of 2	RAT408	
Connector Nuts	Packet of 6	RAT409	
Blanking Cap	Packet of 2	RAT429	
Universal Connector	Each	RAT438	
Retractable Coil c/w connectors	Each	RAT406	
Delivery Tubing - 6 metres	Each	RAT410	
Delivery Tubing - 30 metres	Each	RAT428	
Drag Hose Connector Part - with swivel	Each	RAT430	

AMBIC
 TEAT SPRAYER PARTS

DESCRIPTION	SELLING UNIT	CODE	PRODUCT
Relief Valve complete	Each	RAT206	
Relief Valve Kit	Each	RAT219	
Diaphragm Relief Valve	Each	RAT435	
Diaphragm Pump Classic Complete Designed for the Classic 400 Teat Sprayer	Each	RAT426	
Diaphragm Small Pump	Each	RAT456	
Directional Valve Complete	Each	RAT425	
Primary Filter for Directional Valve	Packet of 3	RAT444	
Directional Valve Bleed Insert	Each	RAT447	
Directional Valve Service Kit	Each	RAT448	
Diaphragm Pump Jetspray Complete Offers a higher volume capacity than RAT426	Each	RAT204	
Liquid Intake Filter	Packet of 2	RAT419	
Vacuum Pipe Adaptor	Each	RAT413	
Pressure Bottle	Each	RAT436	
Diaphragm Pump Inlet Valve	Packet of 2	RAT445	
Diaphragm Pump Outlet Valve	Packet of 2	RAT446	
Pipe Manifold Assembly	Each	RAT450	
Pressure Reservoir Bottle Holder	Each	RAT452	

Contact Skellerup Customer Services for a recommended Ambic Service Agent.

AMBIC
 MASTITIS DETECTORS



In-line mastitis detectors were developed with the National Institute of Research into Dairying (NIRD) UK. They are a simple, in-line device to detect early clinical mastitis. Ambic mastitis detectors won the Queens Award for Technology and many other accolades.

MASTITIS DETECTORS

	SELLING UNIT	CODE
Mastitis Detector 12.7mm	Packet of 4	REM001
Mastitis Detector 12.7mm	Each	REM005
Mastitis Detector 15.9mm	Packet of 4	REM200
Mastitis Detector 15.9mm	Each	REM201

MASTITIS DETECTOR PARTS

	SELLING UNIT	CODE
Mastitis Detector Body 12.7mm	Each	REM206
Mastitis Detector Screen 12.7mm	Packet of 2	REM002
Mastitis Detector O Ring 12.7mm	Packet of 6	REM003
Mastitis Detector Vision Screen 15.9mm	Packet of 2	REM202
Mastitis Detector Vision Body 15.9mm	Each	REM203
Mastitis Detector O Ring Vision 15.9mm	Packet of 6	REM204



Mastitis Detector



REM202



REM003



Why Change Liners Every 2500 Milkings?

The liner is the connection between the cow and the milking machine and is therefore one of the most important components of the milking system.

Milking liners have frequent contact with cows and many milking issues can be avoided if they are changed on a regular basis.

The key reason for changing liners at 2,500 milkings is to avoid deterioration of the inner surface.

Flex-cracks occur, and these are an ideal place for bacteria to grow. These cracks increase the risk of liners splitting and potential grading. As liners age, their ability to apply the tension for effective milk-out declines, contributing to higher somatic cell counts and mastitis if left too long.

Mineral deposits can build up in flex-cracks, damaging teats and opening them to infections. After 2,500 milkings the liner mouth piece can get distorted, causing cup-slip and slower milking.

VACPLUS



REFLEX

BEST FIT FOR HERD



How do I work out when to change my liners?

Example 400 (cows) x 2 (milkings) = 800 divided by 40 (clusters) = 20 (milkings per liner per day).

2,500 milkings divided by 20 (milkings per liner per day) = 125 (days recommended liner life) or 4 months.

8 ways to get the best out of your liner

1. Make sure the liner tailpiece is the right size for your claw.
2. Check the claws for sharp edges. Sharp claws may cause impact damage on the short milk tube. Use emery paper to take off any sharp edges.
3. Always remove the liner from the jetters after cleaning, otherwise you'll get mouthpiece distortion. (It also lets air circulate through the system.)
4. When fitting the liner in the shell, ensure the indicator markers are aligned so the liner isn't twisted in the barrel.
5. Clean with approved chemicals as per manufacturers' instructions and use water at the recommended temperature. Cold water does not remove butterfat!
6. Release the liner tension in the shell at the end of the season if the liners 2,500 milkings is not up.
7. The sun and ozone has an effect on rubber, protect your liners as much as possible.
8. **REMEMBER:** Change your liners after 2,500 milkings. (Refer to liner replacement table above)



LINER REPLACEMENT TABLE - CALCULATED IN MILKING DAYS

HERD SIZE	200	300	400	500	600	700	800	900	1000	1100	1200
NUMBER OF CLUSTERS	15	94	63	47	38	31	27	23	21	19	17
	20	125	83	63	50	42	36	31	28	25	23
	25	156	104	78	63	52	45	39	35	31	28
	30	188	125	94	75	63	54	47	42	38	34
	35	219	146	109	88	73	63	55	49	44	40
	40	250	167	125	100	83	71	63	56	50	45
	45	281	188	141	113	94	80	70	63	56	51
	50	313	208	156	125	104	89	78	69	63	57
	55	344	229	172	138	115	98	86	76	69	63
	60	375	250	188	150	125	107	94	83	75	68
	65	406	271	203	163	135	116	102	90	81	74
	70	438	292	219	175	146	125	109	97	88	80
	75	469	313	234	188	156	134	117	104	94	85
	80	500	333	250	200	167	143	125	111	100	91

Summary

- Inelastic, swollen or cracked liners cannot apply the correct massage force needed for good stimulation and the prevention of oedema.
- Consequently, milk flow using worn out liners will always be lower than that of a comparable new liner.
- Worn liners will contribute to an extension of milking time, and an increase in both clinical and sub clinical mastitis.
- Losses of up to 5% in milk yield can be expected from worn liners due to under milking.

Visit www.2500change.co.nz for more information.

Flex Cracking



Cracks provide an ideal environment for bacteria.

Bacteria = contaminated milk.

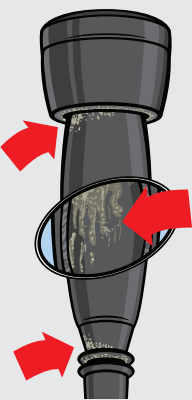
Contaminated milk = grades.

Grades = penalties.

Penalties = lost \$.

In NZ there is typically \$15 million lost in grades.

Mineral Deposit Build-up



Rough liners = abrasion on teats.

Abrasion on teats = damaged and stressed teats.

Damaged teats = infection.

Infection = lost production and expensive treatment = lost \$.

In New Zealand there is typically \$60 million lost due to infection.

Swelling due to Milkfat and Chemical Absorption

The liner head and barrel becomes distorted.

Lost performance in milking speed, milking out efficiency and possibly teat damage.

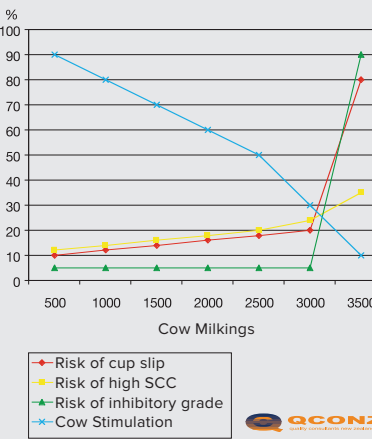
Loss of speed and efficiency = loss of milk yield.

Loss of milk yield = lost production.

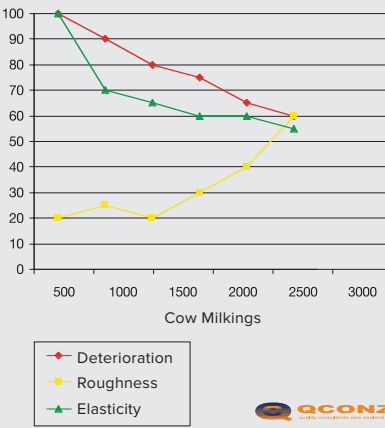
Lost production = less \$ income.

It is estimated in New Zealand there is typically 2-4% production loss and up to 32 extra hours spent in the shed.

The Influence of Aged Liners on Quality Project



Liner Physical Properties



LINER TO LINER CONVERSION

CURRENT MILKING LINER SO = Shut-off	 REFLEX BEST FIT FOR HERD	
Bulseye Surepulse T-A1N	Reflex M22 SO	VACPLUS Square M22 SO
Bulseye Surepulse T-A1W	Reflex M22 SO	VACPLUS Square M22 SO
Bulseye Surepulse T-C1W	Reflex M22 SO	VACPLUS Square M22 SO
Bulseye Surepulse R-AXIN	Reflex M22 SO	VACPLUS Square M22 SO
Bulseye Surepulse R-AX1W	Reflex M22 SO	VACPLUS Square M22 SO
Bulseye Surepulse R-NZ1N	Reflex M22	VACPLUS Square M22
Bulseye Surepulse R-NZ1W	Reflex M22	VACPLUS Square M22
Dairymaster 916 S	Reflex M23	VACPLUS Square M23
Dairymaster 916 SL	Reflex M23	VACPLUS Square M23
Delaval 906836-01 (Oval hackle)	Reflex LT 22W	Consult Area Manager
Delaval 917094-01	Reflex M21	Consult Area Manager
Delaval 917097-01 (Shut-off)	Consult Area Manager	Consult Area Manager
Delaval 917098-01	Reflex M23	VACPLUS Square M23
Delaval 917100-01	Reflex M21	Consult Area Manager
Delaval 917101-01	Reflex M21	Consult Area Manager
Delaval 917102-01 (Shut-off)	Reflex M22 SO	VACPLUS Square M22 SO
Delaval 917103-01	Reflex M23	VACPLUS Square M23
Delaval 917105-01	Reflex M21	Consult Area Manager
Delaval 925125-01 (Oval hackle)	Consult Area Manager	Consult Area Manager
Delaval 927872-01 (Short Shell)	Reflex M22 (T2)	Consult Area Manager
Delaval 927873-01 (Short Shell)	Consult Area Manager	Consult Area Manager
Delaval 927874-01	Reflex M23	VACPLUS Square M23
Delaval 927875-01	Reflex M23	VACPLUS Square M23
Delaval 927876-01 (Short Shell)	Reflex M22 (T2)	Consult Area Manager
Delaval 927878-01	Reflex M23	VACPLUS Square M23
Delaval 960000-02	Reflex M23	VACPLUS Square M23
Delaval 960016-01 (Short Shell)	Consult Area Manager	Consult Area Manager
Delaval 960028-01	Reflex M22	VACPLUS Square M22

CURRENT MILKING LINER SO = Shut-off	 REFLEX BEST FIT FOR HERD	
Flo-Tek 1 or 4	Reflex M23	VACPLUS Square M23
GEA Westfalia 7021-2725-270	Reflex LT 22W	Consult Area Manager
GEA Westfalia 7021-2725-250	Consult Area Manager	Consult Area Manager
Milfos 1010 L (Shut-off)	Consult Area Manager	Consult Area Manager
Milfos 1020 L (Shut-off)	Reflex M22 SO	VACPLUS Square M22 SO
Milfos 1030 L (Shut-off)	Reflex M22 SO	VACPLUS Square M22 SO
Milfos 102014 (Shut-off)	Consult Area Manager	VACPLUS Square M22 SO
Milfos 202014S	Reflex M22	VACPLUS Square ST22
Milfos 202014	Consult Area Manager	VACPLUS Square M22
Milfos 2010S	Reflex M21	Consult Area Manager
Milfos 2010L	Reflex M21	Consult Area Manager
Milfos 2020S	Reflex M23	VACPLUS Square M23
Milfos 2020L	Reflex M23	VACPLUS Square M23
Milfos 2030S	Reflex M23	VACPLUS Square M23
Milfos 2030L	Reflex M23	VACPLUS Square M23
Milfos 5010	Reflex M23	VACPLUS Square M23
Milfos 5020	Reflex M23	VACPLUS Square M23
Milfos 5030	Consult Area Manager	Consult Area Manager
Read 1	Reflex M22	VACPLUS Square M22
Read 2	Reflex M22	VACPLUS Square M22
Read 11	Consult Area Manager	VACPLUS Square M22
Walkato Classic S	Reflex M21	Consult Area Manager
Walkato Classic LB	Reflex M21	Consult Area Manager
Walkato No 1	Reflex M23	VACPLUS Square M23
Walkato Supaliner	Reflex M22	VACPLUS Square M22
Walkato Supaliner LB	Reflex M22	VACPLUS Square M22
Walkato Quadrant S	Reflex M22	VACPLUS Square ST22
Walkato Quadrant LB	Consult Area Manager	VACPLUS Square M22

All Skellerrup 'M' liners are multi-fit and designed for most milking claws.

IMPORTANT – If the current liner being used is not performing satisfactorily or does not appear in this list please contact Skellerrup. For dairy plants using short-shells (140mm) use Reflex M22 (tension ring 2) or convert to standard shells. For Skellerrup liner codes refer page 6. Vacuum Shut-off liners may be appropriate. Consult Skellerrup if unsure. In the interests of product development Skellerrup reserves the right to alter product specifications and features without notice.



SKELLERUP

Skellerrup Industries Limited Private Bag 4736, Christchurch 8140

Customer Services 0800 475 355 **Phone** 03 389 9189 **Email** info@skellerrup.co.nz