

SECTION 01

MILKING SYSTEMS

PORTABLE MACHINES, PARLOURS AND MILK-HANDLING COMPONENTS

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VORTEX DAIRY TECH.

01

PORTABLE MILKING MACHINES

BUILT TO YOUR ORDER

FOUR MODELS · SIX OPTIONS · TWO ANIMAL GROUPS

VORTEX DAIRY TECH.



V1 SINGLE MILKER
1 CLUSTER



V2 DOUBLE MILKER
2 CLUSTERS



VD DOUBLE-BUCKET MILKER
2 CLUSTERS



VE SINGLE ECO MILKER
1 CLUSTER

HOW TO READ THE ORDER CODE

V1	-	B	-	R	-	S	-	D	-	S	-	S	-	P
MODEL		ANIMAL GROUP		LINER		TEAT-CUP SHELL		VACUUM PUMP		BUCKET		CLAW CAPACITY		CHASSIS FINISH

OPTION CODES

OPTION	CODE	MEANING	CODE	MEANING
Animal group	B	Bovine · cows & buffalo	S	Small ruminants · goats & sheep
Liner	S	Silicone	R	Rubber
Teat-Cup Shell	S	Stainless Steel	P	Pvc
Vacuum Pump	O	Oil	D	Dry
Bucket	S	Stainless Steel	A	Aluminium
Claw Capacity	B	240Cc	S	160Cc
Chassis Finish	G	Galvanized	P	Electrostatic Paint

FOUR STEPS TO ORDER

1 PICK A MODEL
V1, V2, VD or VE.

2 CHOOSE THE ANIMAL
B for cows & buffalo, S for goats & sheep.

3 SELECT EACH OPTION
One code per column of the options table.

4 SEND US THE CODE
With quantity and, for VD, the drive type.

V1

MOBILE MILKING MACHINE

SINGLE MILKER

ONE MILKING CLUSTER / ONE MILK BUCKET

VORTEX DAIRY TECH.



EXAMPLE ORDER CODE

V1-B-R-S-D-S-S-P

ANIMAL GROUP CODE

B	Bovine — Cows & buffalo
S	Small Ruminants — Goats & sheep

MODEL FORMAT

- 1 MILKING CLUSTER
- 30 LT MILK BUCKET
- ELECTRIC VACUUM SYSTEM
- MOBILE TWO-WHEEL CHASSIS

Select one code from each option column below.

AVAILABLE CONFIGURATION OPTIONS

LINER	TEAT-CUP SHELL	VACUUM PUMP	BUCKET	CLAW CAPACITY	CHASSIS FINISH
S — SILICONE	S — STAINLESS STEEL	O — OIL	S — STAINLESS STEEL	B — 240cc	G — GALVANIZED
R — RUBBER	P — PVC	D — DRY	A — ALUMINIUM	S — 160cc	P — ELECTROSTATIC PAINT

TECHNICAL DATA

- MOTOR POWER » **0.55 kW / 0.75 HP**
- POWER SUPPLY » **220 V / 50 Hz**
- ROTATION SPEED » **1,380 rpm**
- DIMENSIONS (W X L X H) » **64 x 83 x 87 cm**
- WEIGHT » **53 KG**

STANDARD DRIVE

E — ELECTRIC

- 20ft CONTAINER 50 PCS
- 40ft CONTAINER 100 PCS
- 40ft HIGH-CUBE CONTAINER 150 PCS

V2

MOBILE MILKING MACHINE

DOUBLE MILKER

TWO MILKING CLUSTERS / ONE MILK BUCKET

VORTEX DAIRY TECH.



EXAMPLE ORDER CODE

V2-B-R-S-D-S-S-P

ANIMAL GROUP CODE

- **B** Bovine — Cows & buffalo
- **S** Small Ruminants — Goats & sheep

MODEL FORMAT

- 2 MILKING CLUSTERS
- 40 LT MILK BUCKET
- ELECTRIC VACUUM SYSTEM
- MOBILE TWO-WHEEL CHASSIS

Select one code from each option column below.

AVAILABLE CONFIGURATION OPTIONS

LINER	TEAT-CUP SHELL	VACUUM PUMP	BUCKET	CLAW CAPACITY	CHASSIS FINISH
S — SILICONE	S — STAINLESS STEEL	O — OIL	S — STAINLESS STEEL	B — 240cc	G — GALVANIZED
R — RUBBER	P — PVC	D — DRY	A — ALUMINIUM	S — 160cc	P — ELECTROSTATIC PAINT

TECHNICAL DATA

- MOTOR POWER » **0.55 kW / 0.75 HP**
- POWER SUPPLY » **220 V / 50 Hz**
- ROTATION SPEED » **1,380 rpm**
- DIMENSIONS (W X L X H) » **64 x 82 x 87 cm**
- WEIGHT » **62 KG**

STANDARD DRIVE

- **E** ELECTRIC

- 20ft CONTAINER 50 PCS
- 40ft CONTAINER 100 PCS
- 40ft HIGH-CUBE CONTAINER 150 PCS

VD

MOBILE MILKING MACHINE

DOUBLE-BUCKET MILKER

DOUBLE MILKING CLUSTER / DOUBLE MILK BUCKET

VORTEX DAIRY TECH.



EXAMPLE ORDER CODE

VD-B-R-P-D-S-S-P

ANIMAL GROUP CODE

- **B** Bovine — Cows & buffalo
- **S** Small Ruminants — Goats & sheep

MODEL FORMAT

- 2 MILKING CLUSTERS
- DOUBLE 30 LT MILK BUCKET
- ELECTRIC OR GASOLINE DRIVE
- HEAVY-DUTY MOBILE TWO-WHEEL CHASSIS

Select one code from each option column below.

AVAILABLE CONFIGURATION OPTIONS

LINER	TEAT-CUP SHELL	VACUUM PUMP	BUCKET	CLAW CAPACITY	CHASSIS FINISH
S — SILICONE	S — STAINLESS STEEL	O — OIL	S — STAINLESS STEEL	B — 240cc	G — GALVANIZED
R — RUBBER	P — PVC	D — DRY	A — ALUMINIUM	S — 160cc	P — ELECTROSTATIC PAINT

TECHNICAL DATA

- MOTOR POWER » **0.55 kW / 0.75 HP**
- POWER SUPPLY » **220 V / 50 Hz**
- ROTATION SPEED » **1,380 rpm**
- DIMENSIONS (W X L X H) » **84 x 88 x 88 cm**
- WEIGHT » **68 KG**

STANDARD DRIVE

- **E** ELECTRIC
- **G** GASOLINE

- 20ft CONTAINER 25 PCS
- 40ft CONTAINER 60 PCS
- 40ft HIGH-CUBE CONTAINER 80 PCS

VE

MOBILE MILKING MACHINE

SINGLE ECO MILKER

COMPACT SINGLE-CLUSTER CONFIGURATION

VORTEX DAIRY TECH.



EXAMPLE ORDER CODE

VE-B-R-P-D-S-S-P

ANIMAL GROUP CODE

- **B** Bovine — Cows & buffalo
- **S** Small Ruminants — Goats & sheep

MODEL FORMAT

- 1 MILKING CLUSTER
- 30 LT MILK BUCKET
- ELECTRIC VACUUM SYSTEM
- COMPACT ECO FRAME

Select one code from each option column below.

AVAILABLE CONFIGURATION OPTIONS

LINER	TEAT-CUP SHELL	VACUUM PUMP	BUCKET	CLAW CAPACITY	CHASSIS FINISH
S — SILICONE	S — STAINLESS STEEL	O — OIL	S — STAINLESS STEEL	B — 240cc	G — GALVANIZED
R — RUBBER	P — PVC	D — DRY	A — ALUMINIUM	S — 160cc	P — ELECTROSTATIC PAINT

TECHNICAL DATA

- MOTOR POWER » **0.55 kW / 0.75 HP**
- POWER SUPPLY » **220 V / 50 Hz**
- ROTATION SPEED » **1,380 rpm**
- DIMENSIONS (W X L X H) » **54 x 74 x 80 cm**
- WEIGHT » **45 KG**

STANDARD DRIVE

E — ELECTRIC

- 20ft CONTAINER 55 PCS
- 40ft CONTAINER 120 PCS
- 40ft HIGH-CUBE CONTAINER 180 PCS

01

PORTABLE MILKING MACHINES

RANGE AT A GLANCE

COMPARE THE FOUR MOBILE MODELS

VORTEX DAIRY TECH.



V1 V1 SINGLE



V2 V2 DOUBLE



VD VD DBL-BUCKET



VE VE ECO

SPECIFICATION	V1 SINGLE	V2 DOUBLE	VD DOUBLE-BUCKET	VE SINGLE ECO
Milking clusters	1	2	2	1
Milk bucket	30 L	40 L	2 × 30 L	30 L
Drive	Electric	Electric	Electric / Gasoline	Electric
Motor power	0.55 kW / 0.75 HP	0.55 kW / 0.75 HP	0.55 kW / 0.75 HP	0.55 kW / 0.75 HP
Power supply	220 V / 50 Hz	220 V / 50 Hz	220 V / 50 Hz	220 V / 50 Hz
Rotation speed	1,380 rpm	1,380 rpm	1,380 rpm	1,380 rpm
Dimensions W×L×H	64 x 83 x 87 cm	64 x 82 x 87 cm	84 x 88 x 88 cm	54 x 74 x 80 cm
Weight	53 kg	62 kg	68 kg	45 kg
Example order code	V1-B-R-S-D-S-S-P	V2-B-R-S-D-S-S-P	VD-B-R-P-D-S-S-P	VE-B-R-P-D-S-S-P
20 ft container	50 pcs	50 pcs	25 pcs	55 pcs
40 ft container	100 pcs	100 pcs	60 pcs	120 pcs
40 ft high-cube	150 pcs	150 pcs	80 pcs	180 pcs

COMMON OPTIONS ON ALL MODELS

- LINER: SILICONE / RUBBER
- TEAT-CUP SHELL: STAINLESS STEEL / PVC
- VACUUM PUMP: OIL / DRY
- BUCKET: STAINLESS STEEL / ALUMINIUM
- CLAW: 240 CC / 160 CC
- CHASSIS: GALVANIZED / ELECTROSTATIC PAINT

WHEELS & BUCKET LIDS

SPARE PARTS FOR MOBILE MACHINES

WHEELS



BIG WHEEL Ø300 · RED

VX8903543



BIG WHEEL Ø250 · RED

VX8903543-1



BIG WHEEL Ø300 · BLACK

VX8903544



BIG WHEEL Ø250 · BLACK

VX8903544-1



FRONT WHEEL WITH BRAKE Ø100

VX8903545

TRANSPARENT BUCKET LIDS



40 L LID · WITH SKIRT

VX310101



40 L LID · FLAT

VX310101-1



30 L LID · FLAT · 3 GLAND

VX310105



30 L LID · FLAT · 2 GLAND

VX310104



30 L LID · SKIRT · 3 GLAND

VX310105-1



30 L LID · SKIRT · 2 GLAND

VX310104-1

STAINLESS STEEL LIDS



30 L BUCKET LID · S/S

VX330104-1



30 L BUCKET LID · S/S

VX330104



BUCKET TRANSFER LID Ø38 · S/S

VX330104-2

PORTABLE MILKING MACHINES

LID GASKETS

SEALS FOR BUCKET LIDS



40 / 30 L GASKET · WITH SKIRT

VX410101



30 L GASKET · FLAT

VX410103-1



40 L GASKET · FLAT

VX410101-1



40 L GASKET · FLAT

VX410101-2

GASKET REFERENCES

GASKET	BUCKET	TYPE	CODE
Lid gasket with skirt	40 L / 30 L	Skirt	VX410101 / VX410103
Lid gasket	30 L	Flat	VX410103-1
Lid gasket	40 L	Flat	VX410101-1
Lid gasket	40 L	Flat	VX410101-2

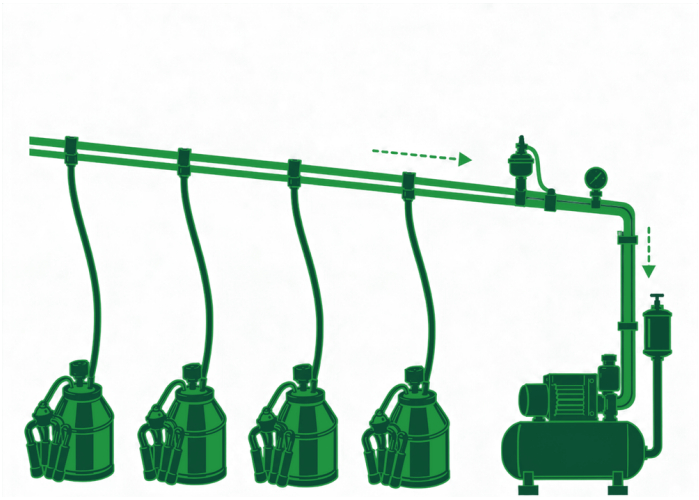
01

MILKING SYSTEMS

BUCKET & PIPELINE SYSTEMS

CHOOSE THE SYSTEM THAT FITS YOUR BARN

VORTEX DAIRY TECH.

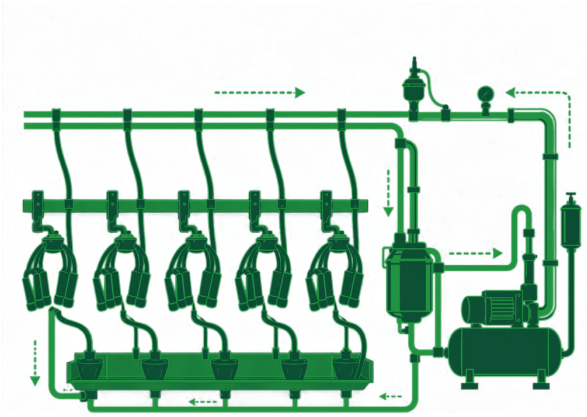


BUCKET SYSTEM

A portable system where milk is collected in an individual bucket at each milking point. Simple, economical and ideal for small herds or barns without a fixed pipeline.

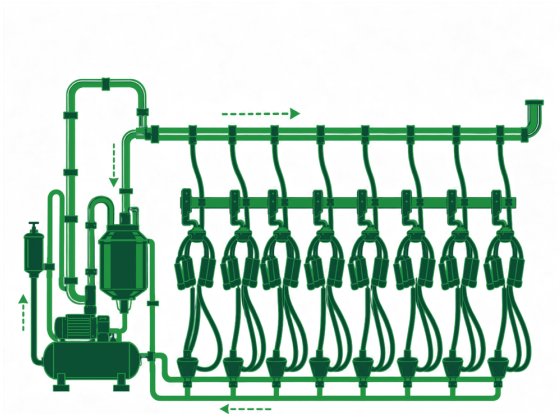
BEST FOR

- SMALL HERDS
- TIE-STALL BARNS
- MOBILE MILKING



PIPELINE SYSTEM · MILK LINE

Milk travels by pipeline from the units to the receiver. Efficient milking, easier cleaning, less labour.



PIPELINE SYSTEM · WALL-HUNG UNITS

Clusters hang on the wall and the system includes in-place washing.

WORK ROUTINE TIME PER COW

SYSTEM	MIN / COW	NOTE
Bucket machine	2.0	Milk carried by hand
Bucket machine with trolley	1.5	About 25% less walking
Pipeline machine	1.0	Milk transported by vacuum

Source: FAO, Milking — typical work routine times.

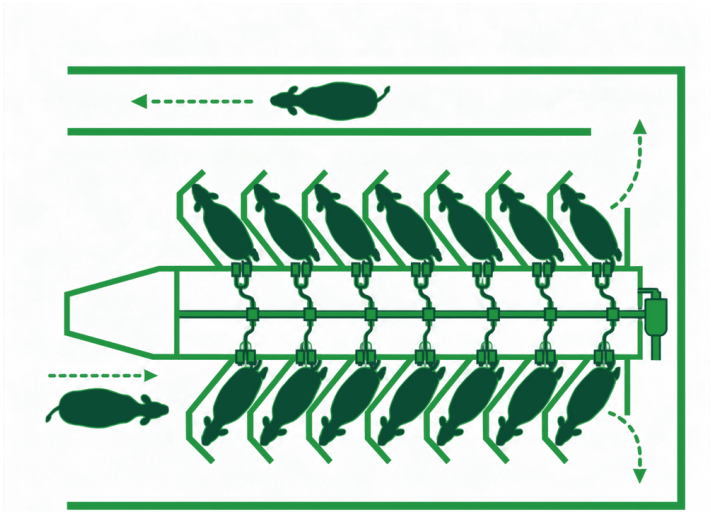
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MILKING SYSTEMS

HERRINGBONE PARLOR

MILKING SYSTEMS / TECHNICAL DATA

VORTEX DAIRY TECH.



NUMBER OF STALLS

4 - 32 STALLS

HOW IT WORKS

Cows stand in echelon at an angle to the operator pit, giving the milker access to the udder from behind or in front of one hind leg. A proven layout for small and medium herds.

KEY FACTS

- UDDER-TO-UDDER SPACING APPROX. 0.9 M
- SUITS HERDS OF APPROX. 50–400 COWS
- 50–75 COWS/HOUR PER OPERATOR

MILK LINE

MILKING CLUSTERS	PULSATION	MILK METER	RECEIVER UNIT
1 PVC CLUSTER 240-340 CC	1 ELECTRONIC PULSATOR	1 MECHANICAL MILK METER	1 60 L RECEIVER + MILK TRANSFER PUMP
2 S/S CLUSTER 240-340 CC	2 PNEUMATIC PULSATOR	2 ELECTRONIC MILK METER	2 100 L RECEIVER + MILK TRANSFER PUMP

VACUUM LINE

- VACUUM PUMP(S)
- PVC PIPELINE
- VACUUM REGULATOR

WASHING LINE

- STAINLESS-STEEL PIPELINE
- WASHING TROUGHS

OPTIONAL

- HERD MANAGEMENT SYSTEM
- SWING-OVER ARM

STANDARD ACCESSORIES

- ELBOWS
- FITTINGS
- SCREWS

Key facts: typical values (FAO). Equipment list per configuration; final scope confirmed in your quotation.

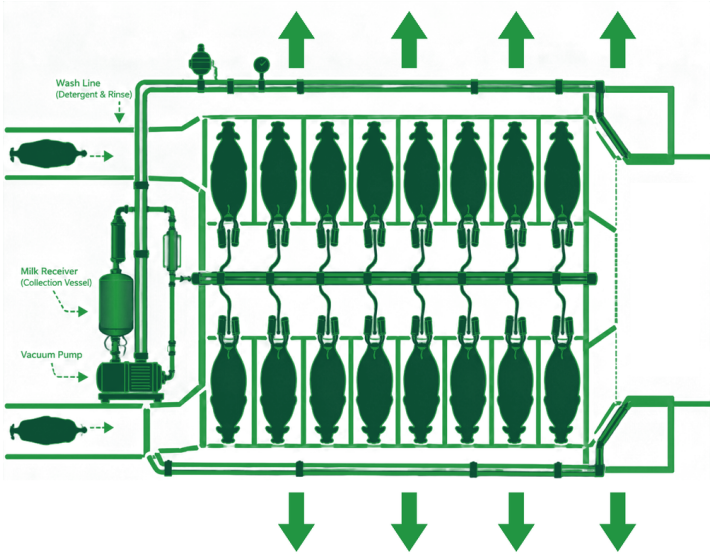
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MILKING SYSTEMS

PARALLEL PARLOR

MILKING SYSTEMS / TECHNICAL DATA

VORTEX DAIRY TECH.



NUMBER OF STALLS

SIZED TO YOUR HERD

HOW IT WORKS

Cows enter in single file and stand side by side with their tails toward the milker. The unit is attached between the rear legs; milking starts when all stalls are full and the row is released together.

KEY FACTS

- COWS STAND AT 90° TO THE PIT
- 3 COWS IN THE LENGTH OF 2 HERRINGBONE STALLS
- FAST, BATCH ENTRY AND EXIT

MILK LINE

MILKING CLUSTERS	PULSATION	MILK METER	RECEIVER UNIT
1 PVC CLUSTER 240-340 CC	1 ELECTRONIC PULSATOR	1 MECHANICAL MILK METER	1 60 L RECEIVER + MILK TRANSFER PUMP
2 S/S CLUSTER 240-340 CC	2 PNEUMATIC PULSATOR	2 ELECTRONIC MILK METER	2 100 L RECEIVER + MILK TRANSFER PUMP

VACUUM LINE

- VACUUM PUMP(S)
- PVC PIPELINE
- VACUUM REGULATOR

WASHING LINE

- STAINLESS-STEEL PIPELINE
- WASHING TROUGHS

OPTIONAL

- HERD MANAGEMENT SYSTEM
- SWING-OVER ARM

STANDARD ACCESSORIES

- ELBOWS
- FITTINGS
- SCREWS

Key facts: typical values (FAO). Equipment list per configuration; final scope confirmed in your quotation.

PARLOUR EQUIPMENT

TAKE-OFF CYLINDER FOR AUTOMATIC CLUSTER REMOVAL



TAKE-OFF CYLINDER

REF. 151419801

FEATURES

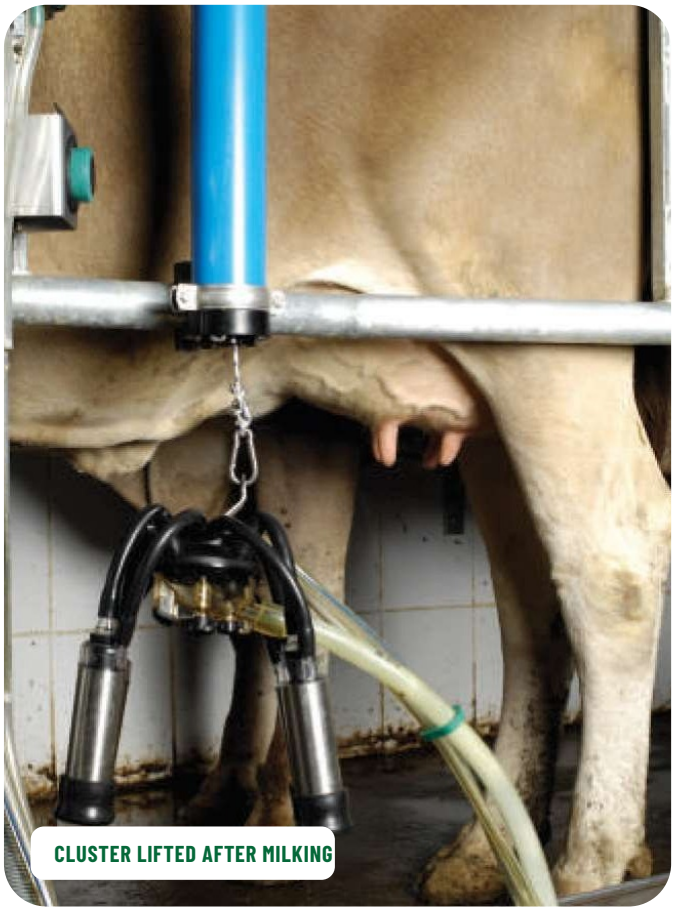
- HEAVY-DUTY PVC BODY
- STRONG PULL, MOVABLE PULLEY
- LONG-LIFE POLY ROPE
- SPECIAL DESIGN FOR EASY SERVICE

Lifts the cluster smoothly after milking.

TAKE-OFF CYLINDER IN USE



CONNECTING THE CLUSTER ROPE



CLUSTER LIFTED AFTER MILKING

01

MILK RECEIVERS

MILK RECEIVER UNITS

RECEIVER TANKS AND COMPLETE TRANSFER SETS



RECEIVER TANK



COMPLETE TRANSFER SET

MILK TRANSFER SET

VX8703585-10

INCLUDED IN THE SET

- 60 L RECEIVING JAR
- MILK TRANSFER PUMP 0.75 KW
- ELECTRONIC FLOAT
- SANITARY TRAP 10 L
- CHROME FILTER & NON-RETURN VALVE

RECEIVER TANKS

RECEIVER TANK	CAPACITY	CODE
Milk receiver tank	30 L	VX8703595
Milk receiver tank	50 L	VX8703596
Milk receiver tank	60 L	VX8703597
Milk receiver tank	100 L	VX8703599

FULL SET CONTENTS

1. RECEIVING JAR 60 L
2. MILK TRANSFER PUMP (THREE PHASE 0.75 KW)
3. OUTLET FOR MILK PUMP S/S Ø32 MM
4. NON-RETURN VALVE Ø32 MM
5. MILK TRANSFER PUMP WALL HOLDER (SET)
6. COVER FOR MILK PUMP
7. ELECTRONIC FLOAT
8. CHROME FILTER 720 × Ø32
9. SANITARY TRAP 10 L
10. RECEIVER INLET
11. S/S COUPLING SET Ø50 × 60
12. RUBBER ELBOW
13. RUBBER STOPPER OF RECEIVING Ø60

MILK RECEIVERS

RECEIVER PARTS & FILTERS

TRAP, FILTERS, INLETS AND SEALS



SANITARY TRAP 10 L

VX8703677



PLASTIC BALL Ø85

VX8703677-1



CHROME FILTER 720 × Ø40 MM

VX8703678



PAPER FILTER 620 × 57 MM

1 piece

VX8703678-2



RECEIVER INLET

VX8203335



RUBBER STOPPER OF RECEIVING Ø60

VX8403376



RUBBER MILK ENTRY 50 × 60

150411004



SIDE CONNECTION 50/63/70 × 76

150411015 / 19 / 16



RUBBER PLUG 60 / 76 MM

150411009 / 010



LEVEL CONTROLLER SEAL

150450161



MAGNETIC FLOAT

VX8703685



FLOAT PIPE RETAINING RUBBER

VX8703685-1

MILK METERS

MILK METERS & CONTROL

MEASURE EVERY ANIMAL · CONTROL EVERY PUMP

FLACO MILK METER

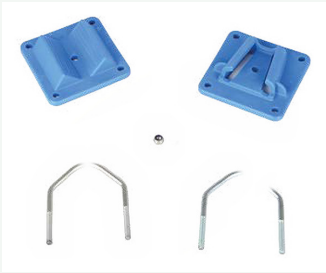
COWS & BUFFALO

VX8803688



- LARGE GRADUATED MEASURING JAR
- REPRESENTATIVE MILK SAMPLE
- FOR PARLOUR AND PIPELINE LINES
- WALL BRACKETS & U-BOLTS INCLUDED

MOUNTING KIT



FLACO MILK METER

SHEEP & GOATS

VX8803689



- SCALE SIZED FOR SMALL RUMINANTS
- REPRESENTATIVE MILK SAMPLE
- FOR PARLOUR AND PIPELINE LINES
- WALL BRACKETS & U-BOLTS INCLUDED

MOUNTING KIT



CONTROL PANELS & ACCESSORIES



LEVEL CONTROL PANEL
1.1 / 0.75 kW · mono or three phase

VX8703684-1 - 4



VACUUM & MILK PUMP PANEL
For vacuum pumps 2.2–7.5 kW

VX8703684-1 - 4



MILK OUTLET BOW · INOX

VX8803783



RUBBER GASKET

VX8803784

FITTINGS & CONNECTIONS

PIPELINE FITTINGS

RUBBER AND PLASTIC CONNECTORS, ELBOWS AND REDUCERS



RUBBER ELBOW

VX8203373



RUBBER T · Ø40

VX8203372



RUBBER CONNECTOR Ø40

VX8203374



RUBBER CONNECTOR Ø50

VX8203374-1



RUBBER CONNECTOR Ø60

VX8203374-2



REDUCING CONNECTOR

VX8203665



REDUCING CONNECTOR

VX8203375



PLASTIC CONNECTOR Ø51

VX8303382

SIZE GUIDE

PART	SIZE	CODE
Rubber elbow	Ø37 / Ø46 / Ø47	VX8203373 / -1 / -2
Rubber T	Ø40	VX8203372
Rubber connector	Ø40 / Ø50 / Ø60	VX8203374 / -1 / -2
Reducing connector	Ø30 × Ø15	VX8203665
Rubber connector	Ø50	VX8303326
Rubber connector	Ø38	VX8303326-1
Plastic connector	Ø51	VX8303382
Pipe holder bracket	140 × 33 mm · Ø22 pipe	VX8303378

FITTINGS & CONNECTIONS

END CAPS & PIPE HOLDERS

STOPPERS, END CAPS, BRACKETS AND S/S CONNECTIONS

END CAPS & STOPPERS



RUBBER STOPPER · EXIT Ø50 × 16

VX8403664



RUBBER STOPPER · EXIT Ø38 × 16

VX8403663



END CAP FOR PIPELINE Ø52

VX8403377



END CAP FOR PIPELINE Ø54

VX8403429



END CAP FOR PIPELINE Ø38

VX8403380



RUBBER CONNECTOR Ø50

VX8303326



RUBBER CONNECTOR Ø38

VX8303326-1



RECEIVER INLET

VX8203335

PIPE HOLDERS & S/S CONNECTIONS



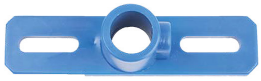
PIPE HOLDER WITH OUTLET

VX8503661



PIPE HOLDER WITH OUTLET

Ø32 / Ø40



PIPE HOLDER BRACKET

140 × 33 mm · Ø22 pipe

VX8303378



PIPE CONNECTION S/S 32-70

151450882 - 885

FITTINGS & CONNECTIONS

MILK INLETS

STAINLESS STEEL MILK INLETS AND GASKETS



MILK INLET 180° · VERTICAL

VX8503670



MILK INLET 180° · HOSE CLAMP

VX8503671



MILK INLET 90° · VERTICAL

VX8503672



MILK INLET 90° · HOSE CLAMP

VX8503673



MILK INLET 90° · PARALLEL

VX8503673-1



MILK INLET · STRAIGHT

VX8503674



MILK INLET · HOSE CLAMP

VX8503675



MILK ENTRY GASKET

VX8503676

INLET DIMENSIONS

MILK INLET	PIPE Ø	INLET Ø	CODE
180° · vertical	Ø50–52 mm	Ø18 mm	VX8503670
180° · hose clamp	Ø50–60 mm	Ø18 mm	VX8503671
90° · vertical	Ø50–52 mm	Ø18 mm	VX8503672
90° · hose clamp	Ø50–60 mm	Ø18 mm	VX8503673
90° · parallel	Ø50–60 mm	Ø18 mm	VX8503673-1
Straight	Ø50–52 mm	16 × 18 mm	VX8503674
Hose clamp	Ø50–52 mm	16 × 18 mm	VX8503675
S/S inlet 40/50 · 60/70	40–70 mm	-	151450804 / 805

MILK PUMPS

MILK TRANSFER PUMP

MOVES MILK FROM THE RECEIVER TO THE COOLING TANK



MILK TRANSFER PUMP

VX8703585

TECHNICAL DATA

CAPACITY	10 ton / hour
MOTOR	1.1 or 0.75 kW
SUPPLY	Mono or three phase
OUTLET	S/S Ø32 mm

Codes VX8703585 to -3 by motor.

PUMP PARTS & OUTLETS



WALL HOLDER (SET)

VX8703585-8



PUMP COVER

VX8703585-9



OUTLET ELBOW S/S Ø32

VX8703585-6



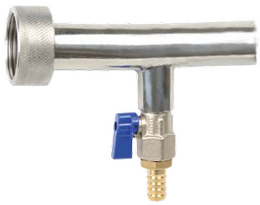
OUTLET S/S Ø32 · VALVE

VX8703585-7



OUTLET S/S Ø32

VX8703585-14



OUTLET S/S Ø32 · VALVE

VX8703585-15



NON-RETURN VALVE Ø32

VX8703659-1