

Since 1951

*Tempo*

Controlled Temperature Solution

# DAIRY AND VETERINARY INDUSTRY PRODUCT RANGE



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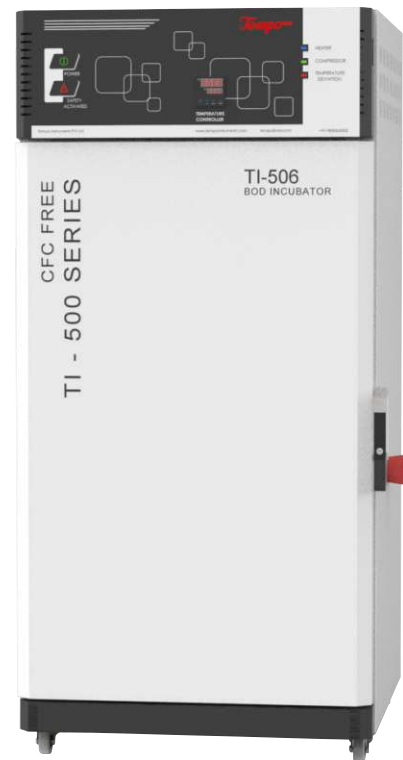
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## BOD Incubator

- Temperature Range - 5°C to 60°C
- Digital PID Temperature Controller
- CFC Free hermetically sealed Emerson Copland make compressor
- Temperature deviation alarm will active & give audio visual alarm
- Full view Acrylic door / Glass Door with gasket to view samples inside the chamber
- Fiber/PU Wheel with front lockable for easy movement

### TECHNICAL SPECIFICATION

MODEL	CAPACITY (Litres)	INTERNAL SIZE (cm)			TRAYS
		H	W	D	
TI - 500	100	50	50	40	2
TI - 501	170	70	60	40	2
TI - 502	200	60	60	40	2
TI - 503	285	80	60	60	3
TI - 504	325	90	60	60	4



## Bacteriological Incubator

- Temperature Range - 5°C above ambient to 60°C
- Digital PID Temperature Controller
- Full view Acrylic door / Glass Door with gasket to view samples inside the chamber.
- Fiber/PU Wheel with front lockable for easy movement.

### TECHNICAL SPECIFICATION

MODEL	CAPACITY (Litres)	INTERNAL SIZE (cm)			TRAYS
		H	W	D	
TI - 90 A	43	35	35	35	2
TI - 90 B	91	45	45	45	2
TI - 90 C	100	50	50	40	2
TI - 90 D	170	70	60	40	2
TI - 90 E	200	60	60	60	2
TI - 90 F	285	80	60	60	3
TI - 90 G	325	90	60	60	4



## Lab Refrigerator

- Temperature Range 2°C above ambient to 8°C
- Digital PID Temperature Controller
- CFC Free hermitically sealed Emerson Copland make compressor
- Temperature deviation alarm will activate & give audio visual alarm
- Full view Acrylic door / Glass Door with gasket to view samples inside the chamber
- Fiber / PU wheel with front lockable for easy movement

### TECHNICAL SPECIFICATION

MODEL	CAPACITY (Litres)	INTERNAL SIZE (cm)			TRAYS
		H	W	D	
TI - 810	100	50	50	40	2
TI - 811	170	70	60	40	2
TI - 812	200	60	60	40	2
TI - 813	285	80	60	60	3
TI - 814	325	90	60	60	4



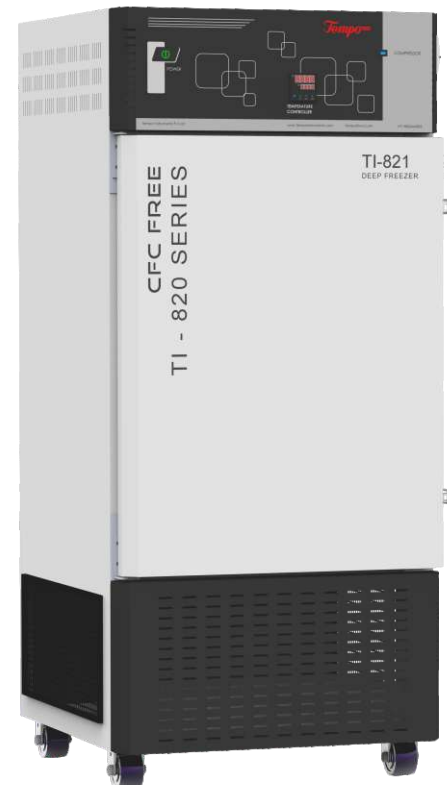
## Deep Freezer

- Temperature Range -10°C to -20°C / -30°C to -40°C
- Standard & Fully S.S. Construction
- Digital PID temperature controller

### TECHNICAL SPECIFICATION

- 20°C MODEL	CAPACITY (Litres)	INTERNAL SIZE (cm)			TRAYS
		H	W	D	
TI - 821	100	50	50	40	2
TI - 822	170	70	60	40	2
TI - 823	200	60	60	60	2
TI - 824	285	80	60	60	3
TI - 825	325	90	60	60	4
TI - 826	400	100	60	60	4
TI - 827	500	105	70	70	4

- 40°C MODEL	CAPACITY (Litres)	INTERNAL SIZE (cm)			TRAYS
		H	W	D	
TI - 831	100	50	50	40	2
TI - 832	170	70	60	40	2
TI - 833	200	60	60	60	2
TI - 834	285	80	60	60	3
TI - 835	325	90	60	60	4



## Laboratory Precision Oven 250°C

“Tempo” make Lab Precision Ovens are with forced air circulation provided by means of motorized blower fitted on the oven for re-circulation of air ensures a homogenous hot air mixture and an exact temperature profile. Ovens are made of triple walled construction. The unit is insulated with 3" high grade glass wool. Single door fitted on heavy hinges. The Unit is provided with user friendly adjustable stainless steel rod mesh trays.

Temp. Range : 5°C above ambient to 250°C  
 Temp. Accuracy : ± 0.2°C  
 Temp. Uniformity : ± 5°C

### TECHNICAL SPECIFICATION

MODEL	CAPACITY (Litres)	INTERNAL SIZE (cm)			TRAYS	MAX. WORKING TEMPERATURE
		H	W	D		
TI - 128 A	43	35	35	35	2	250°C
TI - 128 B	91	45	45	45		
TI - 128 C	122	60	45	45	3	
TI - 128 D	216	60	60	60		
TI - 128 E	324	90	60	60	4	
TI - 128 F	400	110	60	60		



## Laboratory Precision Oven 300°C

“Tempo” make Lab Precision Ovens are with forced air circulation provided by means of motorized blower fitted on back side of the oven for re-circulation of air ensures a homogenous hot air mixture and an exact temperature profile. Ovens are made of triple walled construction. The unit is insulated with 3" high grade glass wool. Single door fitted on heavy hinges. The Unit is provided with user friendly adjustable stainless steel rod mesh trays.

Temp. Range : 5°C above ambient to 300°C  
 Temp. Accuracy : ± 0.2°C  
 Temp. Uniformity : ± 5°C

### TECHNICAL SPECIFICATION

MODEL	CAPACITY (Litres)	INTERNAL SIZE (cm)			TRAYS	MAX. WORKING TEMPERATURE
		H	W	D		
TI - 130 A	43	35	35	35	2	300°C
TI - 130 B	91	45	45	45		
TI - 130 C	122	60	45	45	3	
TI - 130 D	216	60	60	60		
TI - 130 E	324	90	60	60	4	



## Hot Plate

Cast iron top

Temperature Range - Maximum surface temperature 300°C

S.S. Full construction or only S.S. top hot plate available

TECHNICAL SPECIFICATION

MODEL	DIAMETER ( cm )	RATING (Kw)	TEMPERATURE CONTROLLER
TI - 70 TCA	25 x 40	1.2	with Thermostat
TI - 70 TCB	30 x 45	2.0	
TI - 70 TCC	45 x 60	3.0	



## Water Bath

- Standard & Fully S.S. Construction
- Temperature Range - 5°C above ambient to 95°C
- Drop on lid and rings
- 6 Or 12 Holes of 75 mm Dia.
- Digital PID Temperature Controller

TECHNICAL SPECIFICATION

MODEL	INNER DIMENSIONS L X W X D CM	RATING
TI - 241 A	35 x 25 x 10 with 6 holes of 7.5 cm dia	1.0 KW
TI - 241 B	40 x 30 x 10 with 12 holes of 7.5 cm dia	1.5 KW



## MBRT Water Bath

- Standard & Fully S.S. Construction
- Temperature Range - 5°C above ambient to 98°C
- Digital PID Temperature Controller
- Electrically operated stirrer with S.S. blade

TECHNICAL SPECIFICATION

MODEL	TEST TUBE RACKS CAPACITY	CAPACITY (Litres)	INTERNAL SIZE (cm)		
			H	W	D
TI - 160 A	14	14	40	20	18
TI - 160 B	25	25	40	35	18
TI - 160 C	35	35	55	35	18



## Constant Temperature Water Bath

- Temperature Range - 5°C above ambient to 90°C
- Digital PID Temperature Controller
- Top mounted pyramidal removable lid

### TECHNICAL SPECIFICATION

MODEL	CAPACITY (LITERS)	INTERNAL SIZE (cm)		
		H	W	D
TI - 601	14	30	30	15
TI - 602	20	45	30	15
TI - 603	30	44	38	18
TI - 604	40	45	30	30
TI - 605	50	45	35	30



## Autoclave

- Vertical double walled design, has single chamber for Steam & water
- Lid. flange & bottom sheet also made of S.S all joints Argon welded
- Joint less silicon Gasket. Heavy duty industrial flange heater
- Operating Temperature & Pressure – 121°C & 15 PSI (134°C & 30 PSI also available)
- Optional – Semi Automatic model, Fully Automatic model, Data logging & Printing facility, 21 CFR Part 11 Software, Digital Pressure Indicator, Safety Pressure Switch

### TECHNICAL SPECIFICATION

MODEL	CAPACITY (Litres)	INTERNAL SIZE Dia. x Ht. (cm)	Rating (kw)
TI - 121 A	22	25 x 45	1.5
TI - 121 B	35	30 x 50	2.0
TI - 121 C	53	35 x 55	3.0
TI - 121 D	95	45 x 60	4.0
TI - 121 E	119	45 x 75	4.5
TI - 121 F	178	55 x 75	6.0



## Single Lever Autoclave

- Fully Automatic Autoclave with LCD controller cum Timer
- Single lever lock mechanism easy to operate with the single handed
- Spring Loaded Hinged Lid made of thick machined high grade Stainless Steel plate
- Effortless lifting of lid with assisted support (will rest on 45°)
- Extra Digital safety controller for over temperature
- Operating Temperature & Pressure – 121°C & 15 PSI (134°C & 30 PSI also available)
- Unit is provided with Automatic purging, Spring Loaded Safety Valve, Pressure Gauge, Pressure Release Valve, Vacuum breaker & Drain Valve
- Safety Switch – Heater will not energise if lid is not locked properly
- Lid will not open when chamber under pressure
- Optional – Data Logger, 21 CFR Part 11 Software, Digital Pressure Indicator, Safety Pressure Switch



### TECHNICAL SPECIFICATION

MODEL	CAPACITY (Litres)	INTERNAL SIZE Dia. x Ht. (cm)	Rating (kw)
TI - 122 A	22	25 x 45	1.5
TI - 122 B	35	30 x 50	2.0
TI - 122 C	53	35 x 55	3.0
TI - 122 D	95	45 x 60	4.0
TI - 122 E	119	45 x 75	4.5
TI - 122 F	178	55 x 75	6.0

## Pedal Free Autoclave

- Unique Pedal free design
- Vertical double walled design, has single chamber for Steam & water
- Lower Working Height
- Adjustable legs
- Operating Temperature & Pressure – 121°C & 15 PSI (134°C & 30 PSI also available)
- Optional – Semi Automatic model, Fully Automatic model, Data logging & Printing facility, 21 CFR Part 11 Software, Digital Pressure Indicator, Safety Pressure Switch



### TECHNICAL SPECIFICATION

MODEL	CAPACITY (Litres)	INTERNAL SIZE Dia. x Ht. (cm)	Rating (kw)
TI - 123 A	22	25 x 45	1.5
TI - 123 B	35	30 x 50	2.0
TI - 123 C	53	35 x 55	3.0
TI - 123 D	95	45 x 60	4.0
TI - 123 E	119	45 x 75	4.5
TI - 123 F	178	55 x 75	6.0

## Radial Locking Autoclave

- Vertical double walled design has single chamber for steam & water
- Top lid with Radial locking & foot lifting facility
- Lid is tightened by Radial Locking system fitted through a pedal lifting
- Lid flange & bottom sheet also made of S.S. all joints Argon welded
- Joint less silicon gasket. Heavy duty industrial flange heater
- Lid fitting pressure gauge 0-30 PSI, safety spring loaded pressure valve, steam release valve

### TECHNICAL SPECIFICATION

MODEL	CAPACITY (Litres)	INTERNAL SIZE Dia. x Ht. (cm)	Rating (kw)
TI - 125 RLB	35	30 x 50	2.0
TI - 125 RLC	53	35 x 55	3.0
TI - 125 RLD	95	45 x 60	4.0
TI - 125 RLE	119	45 x 75	4.5
TI - 125 RLF	178	55 x 75	6.0



## Horizontal Autoclave

- Temperature range 121°C to 125°C
- Pressure Range 15 TO 22 PSI
- Horizontal cylindrical steam sterilizer
- Inner, outer & steam generator made up of Ss304
- Radial locking system with silicon gasket
- Semi automatic
- Optional fully automatic system

### TECHNICAL SPECIFICATION

MODEL	INTERNAL SIZE Dia. x Ht (cm)	CAPACITY (Liters)	RATING (Kw)
TI- 120 A	40 x 60	75	9.0
TI- 120 B	40 x 90	113	9.0
TI- 120 C	40 x 120	150	9.0



## Horizontal Laminar Air Flow

- Horizontal air flow
- Provides Class 100 Air quality
- Noise level less than 65 db
- Foldable type door
- Estimated life counter for U.V. light & HEPA filter Microprocessor based
- LCD display with membrane touch keypad
- Optional Air velocity sensor

TECHNICAL SPECIFICATION

MODEL	WORKING SIZE W x D x H (feet)	HEPA FILTER	PRE FILTER
TI- 51A -VLAF	2 x 2 x 2	1	1
TI- 51B -VLAF	3 x 2 x 2	1	1
TI- 51C -VLAF	4 x 2 x 2	1	1



## Vertical Laminar Air Flow

- Vertically downwards air flow
- Provides Class 100 Air quality
- Noise level less than 65 db
- Alarms for Incorrect sash position & Clogging of HEPA filter
- Estimated life counter for U.V. light & HEPA filter Microprocessor based
- LCD display with membrane touch keypad
- Optional Air velocity sensor

TECHNICAL SPECIFICATION

MODEL	WORKING SIZE W x D x H (feet)	HEPA FILTER	PRE FILTER
TI- 51A -VLAF	2 x 2 x 2	1	1
TI- 51B -VLAF	3 x 2 x 2	1	1
TI- 51C -VLAF	4 x 2 x 2	1	1



# HEATING TAPES AND CORDS

## Heavy Insulated Heating Tapes 350°C

- Lead Wires on one end
- Spiral Heating Element design to give better temperature uniformity
- Heavy Braided Fibre Glass Outer Cover
- 350 °C High Temperature Capability for continuous use
- Robust & Flexible Element
- Lower Watt Density, enhancing longer life through better distribution of heat. (Lower watts per cm of wire)
- 25mm wide tapes may be easily applied to diameters as small as 12mm
- Temperature controller system (Digital / Thermostatic) can be provided for display, monitoring and safe operation



### HEATING TAPE : HIGH WATT DENSITY

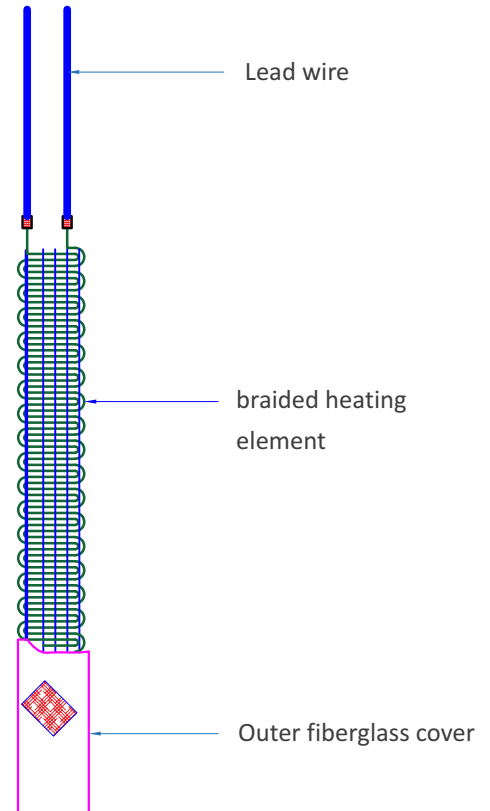
SIZE (W x L mm)	WATT	CATALOG (230V)	CATALOG (110V)
25mm x 600mm	310	TI-681-HIT-H2	TI-682-HIT-H2
25mm x 1200mm	620	TI-681-HIT-H4	TI-682-HIT-H4
25mm x 1800mm	930	TI-681-HIT-H6	TI-682-HIT-H6
25mm X 2400mm	1240	TI-681-HIT-H8	---
25mm X 3000mm	1550	TI-681-HIT-H10	---

### HEATING TAPE : MEDIUM WATT DENSITY

SIZE (W x L mm)	WATT	CATALOG (230V)	CATALOG (110V)
25mm x 600mm	210	TI-681-HIT-M2	TI-682-HIT-H2
25mm x 1200mm	420	TI-681-HIT-M4	TI-682-HIT-H4
25mm x 1800mm	620	TI-681-HIT-M6	TI-682-HIT-H6
25mm X 2400mm	830	TI-681-HIT-M8	---
25mm X 3000mm	1045	TI-681-HIT-M10	---
25mm X 4800mm	1670	TI-681-HIT-M16	---
25mm X 6000mm	2200	TI-681-HIT-M20	---
25mm X 8000mm	2500	TI-681-HIT-M26	---

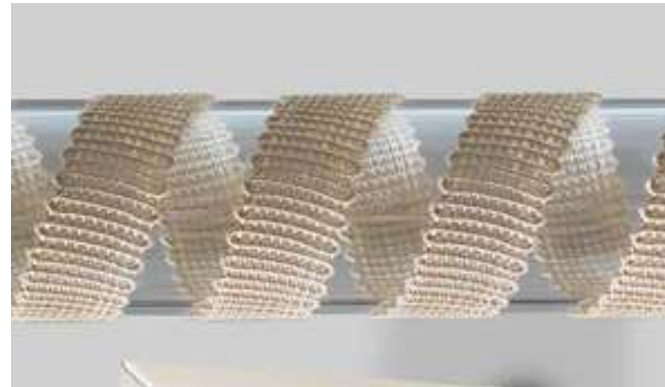
### HEATING TAPE : LOW WATT DENSITY

SIZE (W x L mm)	WATT	CATALOG (230V)	CATALOG (110V)
25mm X 600mm	80	TI-681-HIT-L2	TI-682-HIT-L2
25mm X 1200mm	160	TI-681-HIT-L4	TI-682-HIT-L4
25mm X 1800mm	240	TI-681-HIT-L6	TI-682-HIT-L6
25mm X 2400mm	320	TI-681-HIT-L8	---
25mm X 3000mm	400	TI-681-HIT-L10	---
25mm X 4800mm	640	TI-681-HIT-L16	---
25mm X 6000mm	800	TI-681-HIT-L20	---
25mm X 8400mm	1280	TI-681-HIT-L32	---



## Standard Insulated Heating Tapes 350°C ( For Non-Conducting Surfaces )

- These Tapes are recommended for use on non-conductive surfaces such as glass or ceramic. (Not recommended for Conductive surfaces such as metal etc)
- Lead Wires on one end
- Spiral Heating Element design to give better temperature uniformity
- 350°C High Temperature Capability for continuous use
- Robust & Flexible Element
- Lower Watt Density, enhancing longer life through better distribution of heat. (Lower watts per cm of wire)
- 25mm wide tapes may be easily applied to diameters as small as 12mm
- Temperature controller system (Digital / Thermostatic) can be provided for display, monitoring and safe operation



### HEATING TAPE : MEDIUM WATT DENSITY

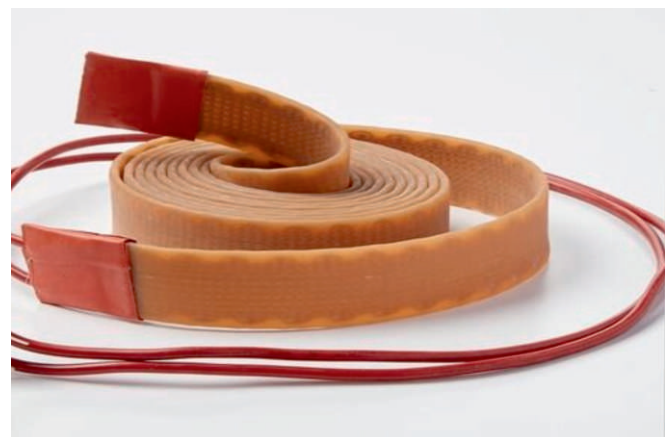
SIZE (W x L mm)	WATT	CATALOG (230V)	CATALOG (110V)
25mm X 600mm	210	TI-681-SIT-M2	TI-682-SIT-M2
25mm X 1200mm	420	TI-681-SIT-M4	TI-682-SIT-M4
25mm X 1800mm	630	TI-681-SIT-M6	TI-682-SIT-M6

### HEATING TAPE : LOW WATT DENSITY

SIZE (W x L mm)	WATT	CATALOG (230V)	CATALOG (110V)
25mm X 600mm	80	TI-681-SIT-L2	TI-682-SIT-L2
25mm X 1200mm	160	TI-681-SIT-L4	TI-682-SIT-L4
25mm X 1800mm	230	TI-681-SIT-L6	TI-682-SIT-L6

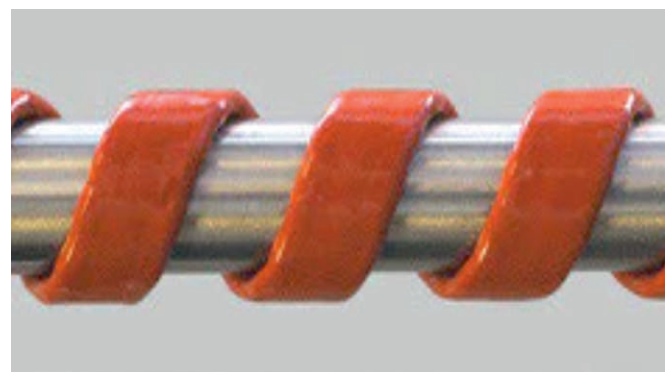
## Silicon Heating Tape 180°C

- Lead Wires on one end
- Extruded Silicone Rubber Outer Cover
- Max operation Temperature 180°C
- Moisture Resistant Construction
- The Silicone Rubber Extrusion uses a low durometer with heat additives to produce the maximum exposure and continuous operating temperature capability, Longer Life, Lower Watt Density
- Lower watts per inch of wire, enhances longer Life through better distribution of heat
- Ultimate flexibility. 25mm wide tapes may, be easily applied to diameters as small as 12mm
- Safe to use on conductive surfaces such as metal tubing
- Temperature controller system (Digital / Thermostatic) can be provided for display, monitoring and safe operation



### Silicon Heating Tape 180°C

SIZE (W x L mm)	WATT	CATALOG (230V)	CATALOG (110V)
25mm X 600mm	100	TI-681-SIL-L2	TI-682-SIL-L2
25mm X 1200mm	200	TI-681-SIL-L4	TI-682-SIL-L4
25mm X 1800mm	310	TI-681-SIL-L6	TI-682-SIL-L6



## Self-Regulating Heat Trace Cable

Self-regulating heat trace cables are advanced heating solutions designed to automatically adjust their heat output in response to ambient temperature changes. These cables are commonly used for freeze protection, process temperature maintenance, and de-icing applications across a variety of industries including oil & gas, chemical, food processing, water treatment, and construction.

### Working Principle:

The core of the cable consists of a semi-conductive polymer that changes its electrical resistance with temperature. As ambient temperature drops, the cable's resistance decreases, allowing more current to flow and generating more heat. Conversely, as the temperature rises, the resistance increases, reducing the heat output. This self-regulating mechanism ensures energy efficiency and eliminates the risk of overheating or burnout.

### Key Features :

- **Self-Regulating Technology:** Adjusts heat output automatically based on surrounding temperature
- **Energy Efficient:** Delivers heat only when and where it's needed, reducing power consumption
- **Safe & Reliable:** Cannot overheat or burn out, even when overlapped
- **Durable Construction:** UV, moisture, and chemical resistant jacketing for harsh environments
- **Easy Installation:** Can be cut to length on site and terminated without special tools
- **Maintenance-Free:** Long operating life with minimal need for service

### Available Categories :

- **Low Temperature (up to 65°C):** Ideal for residential and light commercial pipe freezes protection
- **Medium Temperature (up to 105°C):** Suitable for most industrial process applications
- **High Temperature (up to 135°C):** Designed for demanding environments like oil refineries and chemical plants

### LOW TEMPERATURE (UP TO 65°C / EXPOSURE MAX 105°C)

#### Applications include :

- Frost protection
- Pipe freeze protection (water pipes)
- Roof & gutter de-icing

Typical Output: 10–20 W/m at 10°C

Voltage Options: 110V / 220V

Jacket Types: Polyolefin or Fluoropolymer

### MEDIUM TEMPERATURE (MAINTAIN UP TO 105°C / EXPOSURE MAX 135°C)

#### Applications include :

- Process temperature maintenance
- Oil pipelines
- Hot water supply lines

Typical Output: 20–40 W/m at 10°C

Voltage Options: 220V / 240V

Jacket Types: Fluoropolymer or Modified Polyolefin

Optional Accessories: End seals, connection kits, thermostats



HIGH TEMPERATURE (MAINTAIN UP TO 135°C / EXPOSURE MAX 205°C)

Applications include :

- Bitumen and asphalt lines
- Chemical pipelines
- Extreme industrial processes

Typical Output: 30–60 W/m at 10°C

Voltage Options: 240V

Jacket Types: High-temp Fluoropolymer with tinned copper braid (optional SS braid)

Certifications: ATEX, IECEx, CSA (for hazardous areas)

OPTIONAL ACCESSORIES :

- Thermostats (ambient or pipe-mounted)
- Junction boxes
- Control panels

Applications :

MILK & CREAM TRANSFER LINE FREEZER / VISCOSITY CONTROL

WHERE ? : Milk, Cream, Flavored milk and Syrup pipelines

WHY HEATERS ARE USED :

- To avoid product thickening
- To prevent partial solidification during low ambient temperature
- To maintain smooth flow for pumps and flowmeters

TYPICAL USE :

- Heater wrapped on SS pipe + insulation on top
- Controlled by PID temperature controller



## Drum Heating Jacket

Electric drum heaters are used to heat the contents of drums or barrels, typically in industrial settings. Jacket type electric drum heaters wrap around the drum and provide uniform heating. Flexible construction allows the heater to conform closely to the drum's shape for efficient heat transfer.

Maximum Temperature : 120°C.

Temperature Control : Digital thermostat 30°C - 120°C

- High grade thermal insulation to reduce heat-loss and increase efficiency
- Even heat distribution and maximum energy efficiency
- Easy-to-use —simple plug-and-play design
- Reusable and rugged —long service life
- Ideal for a wide range of poly and metal drum/pail heating applications including viscosity control, freeze protection, temperature maintenance, melting of solids, and thermal mixing
- Silicone impregnated outer clothing
- Closure method : Belt
- Available in capacities 1Kw, 1.5Kw, 3Kw, 4.5Kw for standard 20/50/200 Litre Poly / Metal drum size(Also Available Custom sizes)
- Supply : 240V A/c, Single Phase



## Silicon Rubber Drum Heater / Belt Heater ( 120°C )

- For standard 200 Liter, 50 Liter & customized sizes
- Chemical and moisture resistant and extremely rugged
- Fitted with adjustable retaining spring and quick release hooks
- Available with or without temperature control
- 240 volt AC
- Ideal for wide variety of plastic, fibre and metal containers
- Available in various capacities for standard 200 / 150 / 50 liter poly / Metal drum or custom size



# Flexotherm Flexible Heating Solution

## Applications in dairy industry

FLEXOTHERM™ flexible heating products are widely used in dairy and food processing industries where controlled, uniform, and hygienic heating is essential.

Our heating tapes, heating cords, and drum heating jackets help maintain optimal temperatures for processing, transferring, and storing dairy products.

These heaters are designed with high temperature fiberglass insulation, flexible design, and uniform heat distribution, making them suitable for laboratory, pilot plant, and industrial dairy production environments.

### Key Dairy Applications :

#### 1. Milk Processing Lines

Flexible heating tapes are used to maintain temperature in:

- Milk transfer pipelines
- Sampling lines
- Laboratory glassware
- Small process tubes

Maintaining temperature prevents fat separation and product solidification during transfer.

#### Recommended Products :

- Heavy Insulated Heating Tape (350°C)
- Silicone Heating Tape (180°C)
- Flexible Heating Cord

#### 2. Butter and Ghee Processing

During butter and ghee production, maintaining controlled temperature is important to avoid solidification.

Flexible heaters are used for :

- Butter transfer lines
- Ghee storage containers
- Clarification vessels
- Small tanks and pipelines

#### Recommended Products :

- Heavy Insulated Heating Tape 350°C
- Drum heating jacket

#### 3. Chocolate and Dairy Ingredient Heating

In chocolate milk, flavored milk, and dairy ingredient processing, materials like cocoa butter and fats must remain in liquid form.

Flexible heaters help in :

- Chocolate transfer lines
- Ingredient melting containers
- Small storage vessels
- Laboratory processing equipment

#### Recommended Product :

- silicone heating tapes



#### 4. Laboratory & R&D Heating

Dairy laboratories require precise heating for testing and research.

Flexible heating tapes and mantles are used for :

- Glass reactors
- Distillation setups
- Soxhlet extraction
- Laboratory flasks and vessels

These heaters ensure accurate and repeatable temperature control during product testing :

- Reactor Heater (customize)
- Heating Mantle

#### 5. Drum Heating for Dairy Ingredients

Many dairy raw materials are stored in metal drums or plastic containers such as :

- Butter oil
- Dairy fat
- Chocolate ingredients
- Food additives

FLEXOTHERM™ drum heating jackets provide controlled heating for :

- 200 L drums
- Chemical containers
- Ingredient storage barrels

This allows easy pumping and processing of viscous dairy materials.

#### Advantages for Dairy Industry :

- Uniform and controlled heating
- Flexible design for pipes, vessels, and drums
- Prevents solidification of dairy fats
- Energy-efficient heating solution
- Easy installation and removal
- Compatible with digital temperature controllers

#### Temperature Control Options

FLEXOTHERM™ heating systems can be supplied with :

- Digital temperature controllers
- Thermostatic control units
- Multi-channel control panels

This ensures precise process temperature management for dairy production.



Material Process Heating To maintain temperature

## TRUTH™ Interchangeable Glass Syringes

Ideal for laboratory liquid handling of various liquids including Plastic Sensitive Materials, hazardous chemicals, Adjuvant solutions, petroleum derivatives, glues, synthetic dyes, perfumes, essential oils and organic chemicals.

### FEATURES



Glass Barrels & Pistons are made from borosilicate glass provide protection against thermal shock



Outstanding Chemical Resistance being made of 3.3 Borosilicate Glass



Graduation marks are permanently fused into a glass barrel



Coloured plunger facilitates dosage measurements



Luer locks are Nickel-chrome plated brass or Stainless Steel (SS316) as per ISO 594/1; 595/2



We supply in private label terms as well



Precision shrinking ensures improved leak free smooth operation



Inert Liquid Path, No 'O' ring



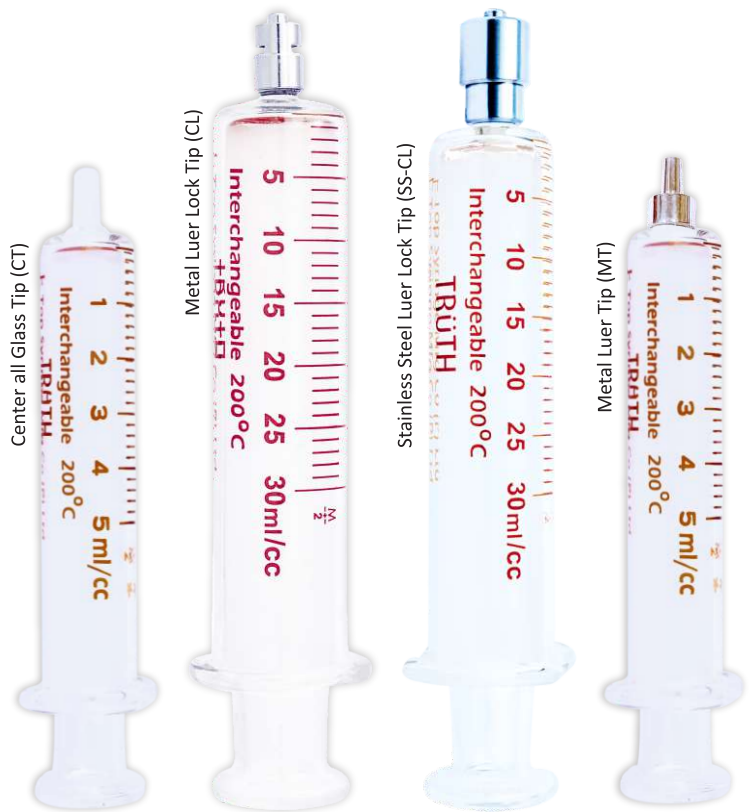
Autoclavable at 121°C

TERMINATION	CATALOG	VOLUME	GRADUATION	PACK
Center all Glass Tip (CT)	01-03-01-03	1ml	0.05ml	10pcs
	01-05-01-04	2ml	0.1ml	10pcs
	01-07-01-04	3ml	0.1ml	10pcs
	01-08-01-05	5ml	0.2ml	10pcs
	01-09-01-05	10ml	0.2ml	10pcs
	01-10-01-06	20ml	0.5ml	10pcs
	01-11-01-07	30ml	1ml	1pc
	01-13-01-08	50ml	2ml	1pc
	01-15-01-08	100ml	2ml	1pc

TERMINATION	CATALOG	VOLUME	GRADUATION	PACK
Metal Luer Lock Tip (CL)	01-03-02-03	1ml	0.05ml	10pcs
	01-05-02-04	2ml	0.1ml	10pcs
	01-07-02-04	3ml	0.1ml	10pcs
	01-08-02-05	5ml	0.2ml	10pcs
	01-09-02-05	10ml	0.2ml	10pcs
	01-10-02-06	20ml	0.5ml	10pcs
	01-11-02-07	30ml	1ml	1pc
	01-13-02-08	50ml	2ml	1pc
	01-15-02-08	100ml	2ml	1pc

TERMINATION	CATALOG	VOLUME	GRADUATION	PACK
Stainless Steel (Ss316) Luer Lock Tip (SS-CL)	01-03-75-03	1ml	0.05ml	10pcs
	01-05-75-04	2ml	0.1ml	10pcs
	01-07-75-04	3ml	0.1ml	10pcs
	01-08-75-05	5ml	0.2ml	10pcs
	01-09-75-05	10ml	0.2ml	10pcs
	01-10-75-06	20ml	0.5ml	10pcs
	01-11-75-07	30ml	1ml	1pc
	01-13-75-08	50ml	2ml	1pc
	01-15-75-08	100ml	2ml	1pc

TERMINATION	CATALOG	VOLUME	GRADUATION	PACK
Metal Luer Tip (MT)	01-03-03-03	1ml	0.05ml	10pcs
	01-05-03-04	2ml	0.1ml	10pcs
	01-07-03-04	3ml	0.1ml	10pcs
	01-08-03-05	5ml	0.2ml	10pcs
	01-09-03-05	10ml	0.2ml	10pcs
	01-10-03-06	20ml	0.5ml	10pcs
	01-11-03-07	30ml	1ml	1pc
	01-13-03-08	50ml	2ml	1pc
	01-15-03-08	100ml	2ml	1pc



### Nozzle Types



CT



CL



SS-CL



MT

## TRÜTH™ Control Glass Syringe & Metal Piston Syringes

Control glass syringes with 3 finger ring, glass or stainless steel piston & rubber ring. Reusable glass syringe for laboratory liquid handling.

### FEATURES

- The 3 ring offers better grip while holding the syringe & administering the dose
- Solid glass / metal version
- Graduated glass syringe with precision cut
- Ground-in piston with 'O' ring made of stainless steel
- Autoclavable (134°C or 273°F)
- Plunger and Glass Syringes can be interchanged as desired
- The SS Piston Glass Syringes is transparent and even after long use shows no sign of wear, as does the stainless steel plunger
- The plunger is smooth and so ensures enhanced tightness
- Applications include:
  - Single hand operation in lab
  - For filtration application with any brand of syringe filter
  - Luer lock attachment to secure needle

### Control Glass Syringe

TRÜTH™ control Glass Syringe with 3 Finger Ring Glass Piston Metal Luer Lock Tip (CL) with 'O' Ring

GLASS PISTON	VOLUME	GRADUATION	PACK
19-05-02-04	2 ml	0.01 ml	1pc
19-07-02-04	3 ml	0.01 ml	1pc
19-08-02-05	5 ml	0.2 ml	1pc
19-09-02-05	10 ml	0.2 ml	1pc
19-10-02-06	20 ml	0.5 ml	1pc
19-13-02-08	50 ml	2 ml	1pc



### Control Glass Syringe with SS Piston

TRÜTH™ control Glass Syringes with 3 Finger Ring, Stainless Steel Piston & Metal Luer with 'O' Ring Lock Tip (CL)

STAINLESS STEEL PISTON WITH 'O' RING	VOLUME	GRADUATION	PACK
19-27-02-04	2 ml	0.01 ml	1pc
19-28-02-04	3 ml	0.01 ml	1pc
19-28-02-05	5 ml	0.2 ml	1pc
19-30-02-05	10 ml	0.2 ml	1pc
19-31-02-06	20 ml	0.5 ml	1pc
19-32-02-08	50 ml	2 ml	1pc



## TRÜTH™ Record Glass Syringes

Glass Syringe fulfill the demand of medical practice & Veterinary application in simplicity and reliability in every way

### FEATURES



Graduated Glass Syringe with precision cut



The Glass Syringes is transparent and even after long use shows no sign of wear, as does the stainless steel plunger



Autoclavable ( 134°C or 273°F)



There is no danger of breakage if Glass Syringe is not taken to pieces for sterilizing



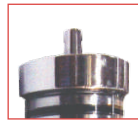
Plunger and Glass Syringes can be interchanged as desired



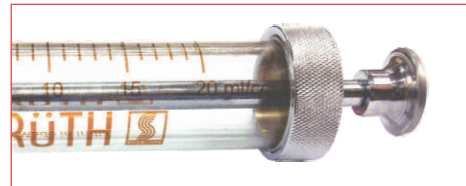
The plunger is smooth and so ensures enhanced tightness

### Record Glass Syringes are available with Metal Record Tip

CATALOG	CAPACITY	PACK
17-04-21-02	1ml	Each
17-05-21-05	2ml	Each
17-08-21-06	5ml	Each
17-09-21-07	10ml	Each
17-10-21-08	20ml	Each
17-13-21-10	50ml	Each

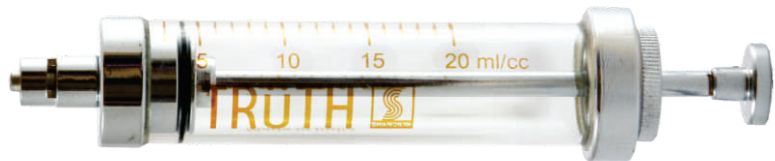


Metal Record Tip



### Record Glass Syringes are available with Metal Luer Lock Tip

CATALOG	CAPACITY	PACK
17-04-02-02	1ml	Each
17-05-02-05	2ml	Each
17-08-02-06	5ml	Each
17-08-02-07	10ml	Each
17-10-02-08	20ml	Each
17-13-02-10	50ml	Each



Metal Luer Lock Tip



## TRUTH™ Reusable Needles

We offer a variety of needles for laboratory use. All needles are made with type 304 stainless steel cannulae. They are good ground and electro polished on high precision machines. Needles are fitted with standard nickel plated luer hubs. Autoclavable @ 121°C

Other Sizes available on request

### Aspiration Needles / Hypodermic Needle



CATALOG	SIZE	PACK	CATALOG	SIZE	PACK	CATALOG	SIZE	PACK	CATALOG	SIZE	PACK
TN-14-0200-B	14G x 2"	10	TN-18-0600-B	18G x 6"	10	TN-20-0400-B	20G x 4"	10	TN-16-0112-B	16G x 1.5"	12
TN-14-0400-B	14G x 4"	10	TN-18-0800-B	18G x 8"	10	TN-20-0434-B	20G x 4"	10	TN-18-0112-B	18G x 1.1/2"	12
TN-16-1000-B	16G x 10"	10	TN-18-1000-B	18G x 10"	10	TN-20-0600-B	20G x 6"	10	TN-18-0012-B	18G x 1/2"	12
TN-16-0300-B	16G x 3"	10	TN-18-1200-B	18G x 12"	10	TN-20-0800-B	20G x 8"	10	TN-20-0112-B	20G x 1.1/2"	12
TN-16-0400-B	16G x 4"	10	TN-19-0800-B	19G x 8"	10	TN-22-0200-B	22G x 2"	10	TN-20-0012-B	20G x 1/2"	12
TN-16-0600-B	16G x 6"	10	TN-19-1000-B	19G x 10"	10	TN-22-0800-B	22G x 8"	10	TN-22-0100-B	22G x 1"	12
TN-16-0800-B	16G x 8"	10	TN-19-1200-B	19G x 12"	10	TN-22-1000-B	22G x 10"	10	TN-24-0100-B	24G x 1"	12
TN-17-0600-B	17G x 6"	10	TN-20-0100-B	20G x 1"	10	TN-22-1200-B	22G x 12"	10	TN-26-0012-B	26G x 1/2"	12
TN-18-0100-B	18G x 1"	10	TN-20-1000-B	20G x 10"	10	TN-23-0300-B	23G x 3"	10	TN-26-0400-B	26G x 4.3/4"	12
TN-18-0300-B	18G x 3"	10	TN-20-1200-B	20G x 12"	10	TN-23-0600-B	23G x 6"	10	TN-27-0038-B	27G x 3/8"	12
TN-18-0400-B	18G x 4"	10	TN-20-0200-B	20G x 2"	10						

### Blunt Dispensing Needle

CATALOG	SIZE	PACK
TN-20-0112-D	20G x 1 1/2"	12
TN-16-0400-D	16G x 4"	10
TN-14-0400-D	14G x 4"	10
TN-15-0500-D	15G x 5"	10



Blunt Needles



Hypodermic Needles

### Feeding Needles

The drenchers are intended for safe animal nose and mouth feeding. The drenchers have straight or bent shapes with rounded ends. The Luer Lock fixture provide for tight fitting on to the syringe nozzle

CATALOG	SIZE	DESCRIPTION	PACK
TN-18-0200-FS	18G x 2"	Straight	3
TN-16-0400-FS	16G x 4"	Straight	2
TN-14-0300-FS	14G x 3"	Straight	3
TN-18-0200-FC	18G x 2"	Curved	3
TN-16-0400-FC	16G x 4"	Curved	2
TN-14-0300-FC	14G x 3"	Curved	3

B = Bevel / Lancet Point. D = Blunt Flat Cut.  
 FS = Feeding Needle Straight. FC = Feeding Needle Curved.

Recommended Needles for Glass Syringes :

Syringe Type/ Needle Gauge	0.25ml	0.50ml	1.0ml	2.0ml	3.0ml	5.0ml	10.0ml	20.0ml	30.0ml	50.0ml	100.0ml	150.0ml	200.0ml
14G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	○	○	○
16G	✓	✓	✓	✓	✓	✓	✓	✓	✓	○	○	○	X
18G	✓	✓	✓	✓	✓	✓	✓	○	○	○	X	X	X
20G	✓	✓	✓	✓	✓	✓	✓	○	○	X	X	X	X
21G	✓	✓	✓	○	○	○	○	X	X	X	X	X	X
22G	✓	✓	✓	○	○	○	○	X	X	X	X	X	X
24G	✓	✓	○	○	○	○	○	X	X	X	X	X	X
26G	○	○	○	X	X	X	X	X	X	X	X	X	X
27G	○	○	X	X	X	X	X	X	X	X	X	X	X

✓ Recommended Suitable Needle    ○ Can Be Used Needle    X Not Suitable Needle



## Veterinary Injectors / Vaccinators

The **VetDose** Veterinary Injectors with spring-loaded plunger and three-way valve system are designed for serial precision injections. Simple conception, perfect balance and ergonomic design provide for ease of use, operator comfort and fatigue-free field work.

This self-refilling syringe possesses a spring-loaded plunger and a 3-way valve and is intended for mass vaccination of poultry, swine, cattle, fish & small laboratory animals. The syringe allows trouble free injection of volumes as small as 0.05ml, with various water or oil based vaccines or difficult heavy iron solutions with an excellent reproducibility.

The **VetDose** Veterinary Injectors is most effective when worked on the field during the work with the animal.

An exceptional price / quality ratio makes the **VetDose** syringes all the more your automatic choice for mass vaccination programs etc.

**VetDose** Prime Vaccinators provide good plunger tightness without 'O' ring, easy volume reading on the interchangeable glass barrel and adjustment mechanism with a locking nut are additional key features.

Similarly **VetDose** Classic is another cost effective syringe which can be used for Mass poultry application. The effective syringe don't use glass barrel hence no breakage is involved.



● Durability

● Reliability

● Comfort

## Features and Advantages

1. Comfortable grip : The Self Refilling Syringe fits any hand in a comfortable way.
2. Simple and natural movement : The activation of the Self Refilling syringes is performed with limited effort for efficient work even during long dispensing series. This ensures complete user comfort.
3. Fast and reliable volume selection : Volume is set within seconds. It will not vary while activating the syringe, thanks to the safety locking nut on the micro metric screw. Dose by-dose reproducibility is excellent.
4. Easy Changing Dose : Without Changing any piston
5. Plunger tightness without O ring : This smooth plunger travel and tightness is achieved through the high-precision stainless steel plunger and grounded glass barrel. No O-ring to mess with or replace ever.
6. Low maintenance: The syringes are made of only 6 main parts, which are easy to disassemble & reassemble. The fast access to all elements allow rapid & efficient cleaning. Spare parts are available at reasonable cost.
7. Clear visibility of Dose : The syringes window & Glass Barrels allow you to have a clear visibility of the Dose being administered.
8. Sterilization : Sterilization possible while fully assembled in boiling water or in autoclave at 121°C (250°F)
9. Highly accurate : All Glass Barrels are made as per the specification laid down for glass syringes as mentioned in ISO 595 /1 & 595 /2
10. Long life : The self refilling syringe can last over a number of years if taken care of properly and serviced carefully from time to time
11. Glass barrel most inert material : Glass is the best solution for vaccine, drug and feed delivery for poultry and other animals
12. Robust construction : Rugged assembly ensures optimal output even on the field during use with animals
13. No need for servicing : Same effortless movement is ensured every time.
14. High quality construction: All components are made of superior quality raw materials which are thoroughly checked by our qualified QC department prior to production. Each component is made from Superior Quality material including glass, plastics, metals etc. These are thoroughly checked during each stage of manufacturing for quality & specifications.
15. Ready to use : All self refilling syringes are supplied ready to use. There is no assembling or preparation required.
16. Positive dose locking mechanism : Ensure efficient delivery of dose very single time.
17. Used from small to large animals
18. Compatible with highly viscous liquids : Special Springs are offered for the VetDose Self refilling syringes to work not only with aqueous solution but also oily. Viscous or heavy iron solutions including a variety of suspensions.
19. Glass Protection : Interchangeable glass barrel is protected by a PVC sleeve (not autoclavable) to prevent breakage
20. Packed individually in a convenient display box
21. Economical & Low replacement cost : Only the glass part will have to be changes instead of buying a new device. Truly an unbeatable Price to Quality Ratio Product
22. Light weight and easy to use : The VetDose ensures virtually fatigue free working when used during mass vaccination.
23. Sturdy liquid paths: made of non-reactive & inert materials i.e. glass, stainless steel etc.
24. Feed Tube : made of inert silicone & not PVC or any other reactive plastics
25. International quality : Luer Lock specifications meet ISO 594/1 & ISO 594/2. All Parts are made and assembled by ISO 9001 & ISO 13485 certified company



## Prime Feed Tube Set (FTS)

The VetDose Prime Feed Tube Set is an excellent solution for accurate delivery of repetitive fixed doses without any errors during mass treatment. This self-refilling syringe is most effective when worked on the field with the animals.

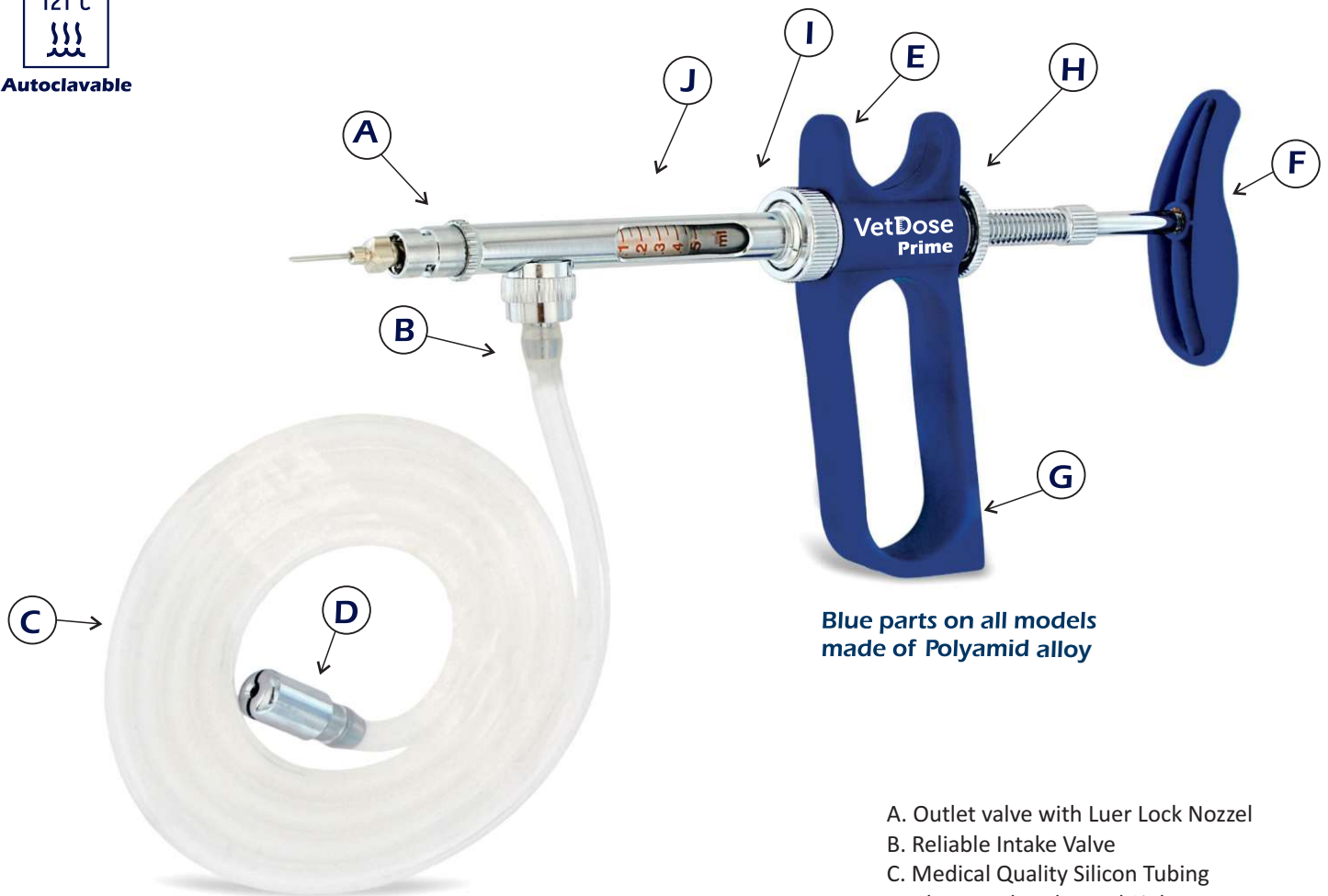
It can be used from Small to large Animals. The Comfortable Grip and ergonomic design ensure fatigue-free working during poultry injections. The fast and reliable volume selection ensures highly accurate dosing.

The robust construction of the Veterinary Injectors makes it easily autoclavable. This product is for use with feed tubes. This model comes with accessories that facilitate repetitive dosing from bottles or jars using feed tubes, sinker valve, feed cannula etc.

The sinker valve ensures it reaches and stays at the bottom of the jar during the time of usage. This would ensure that the entire liquid in the jar would be used making it highly effective.

The Veterinary Injector is compatible for use with aqueous, oily, viscous or heavy iron solutions as well as a variety of suspensions using special viscous spring.

The long life and durability of the product makes it the most economical model available.



**Blue parts on all models made of Polyamid alloy**

- A. Outlet valve with Luer Lock Nozzle
- B. Reliable Intake Valve
- C. Medical Quality Silicon Tubing
- D. Chrome Plated Metal Sinker
- E. All Time Access Finger Rest
- F. Soft Shaped Hand Crutch
- G. Optimal Balance Handle
- H. Safety Locking Nut
- I. Chrome Plated Metal Components
- J. Interchangeable Grounded Glass Barrel

**WE SUPPLY ON OEM TERM AS WELL**

Note : Needle Shown in image for Display only. Not Supplied with Instrument

**SPECIFIC ADVANTAGES :**

- Easy changing of dose without changing any piston
- Clear visibility of the Dose
- Long lasting since replacement cost is least as only barrel needs to be changed and not entire device
- Plunger Tightness without O ring
- High Quality Construction
- No need of servicing with silicone oil same effortless movement is ensured every time
- Feed tube made of Silicone & not PVC
- Best / Quality ratio
- Fully Autoclavable

**LIQUID PATH**

PARTS IN CONTACT WITH LIQUID	MATERIAL
Feed tubing	Silicone
Glass barrel	Borosilicate Glass
Washer, barrel	FPM
Plunger	Stainless Steel
Valve system	Ni-Cr Brass
Washer, valve	PTFE
Spring and ball valve	Stainless Steel
Sinker and Feed cannula	Ni-Cr Brass



**VetDose PRIME FEED TUBE SET**

CATALOG	CAPACITY	DESCRIPTION	GRADUATION
VD-50-A	0.5ml	0.5ml, Feed Tube Set	0.05ml
VD-100-A	1ml	1ml, Feed Tube Set	0.05ml
VD-200-A	2ml	2ml, Feed Tube Set	0.1ml
VD-500-A	5ml	5ml, Feed Tube Set	0.25ml
VD-1000-A	10ml	10ml, Feed Tube Set	1.0ml

**PACKING CONTAINS :**

Supply includes Metal body, Luer lock nozzle, Plunger, Glass barrel, Integrated valve system, Feed Tube, Sinker valve, Feed cannula, Vent cannula, Spare kit (Springs, Valve balls & Washers), Detailed operating manual and Viscous solution spring only (2ml & 5ml)

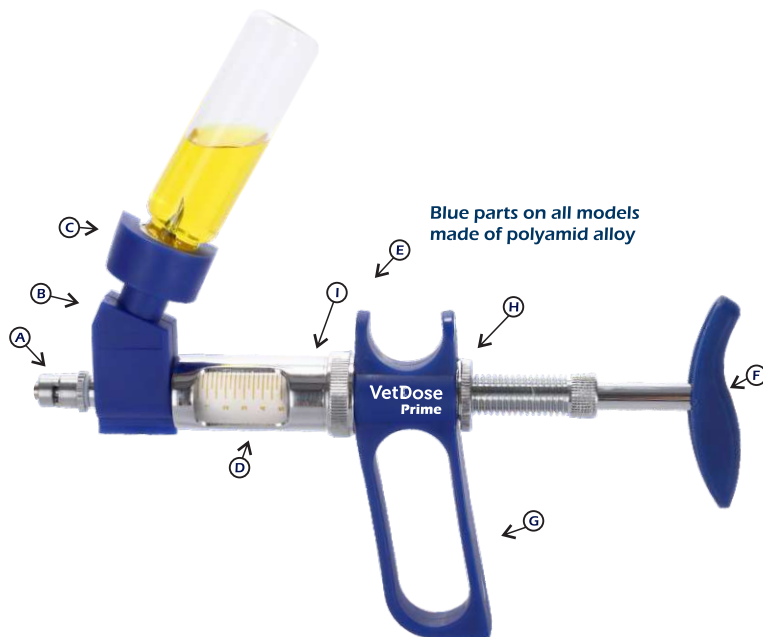
## VetDose Prime Vial Holder Set (VHS)

The **VetDose Prime Vial Holder Set** is another liquid feeding model. Consisting of a vial holder, integrated vented needle, locking ring and bottle lock, this 'Vial Holder' model is used to draw liquid out of the original liquid manufacturer's vial. The Vial Holder body is at an optimal angle. The locking ring on the vial ensure the vial dose not get dis engaged from the Vial holder body. The integrated vented needle ensure smooth operation of the dosing. The detachable slant Vial Holder Body fits standard vials. The safety locking nut ensure reliable and highly accurate repetitive prefixed dose dispensing

### SPECIFIC ADVANTAGES :

- Easy changing of dose without changing any piston
- Clear visibility of the Dose
- Long lasting since replacement cost is least as only barrel needs to be changed and not entire device
- Plunger Tightness without O ring
- High Quality Construction
- No need of servicing with silicone oil same effortless movement is ensured every time
- Safety Lock holds 20mm neck diameter vial firmly
- Best / Quality ratio
- Fully Autoclavable
- 60ml PP Reservoir

PARTS IN CONTACT WITH LIQUID	MATERIAL
Glass barrel	Borosilicate Glass
Washer, barrel	FPM
Plunger	Stainless Steel
Valve system	Ni-Cr Brass
Valve	PTFE
Spring and ball valve	Stainless Steel
Sinker and Feed cannula	Ni-Cr Brass
Reservoir	Polypropylene



- A. Integrated VentNeedle
- B. Detachable Slant Standard Vial Holder Fitting
- C. Safety Lock Holds Vial Firmly
- D. Interchangeable Grounded Glass Barrel
- E. All Time Access Finger Rest
- F. Soft Shaped Hand-Crutch
- G. Optimal Balance Handle
- H. Safety Locking Nut
- I. Chrome Plated Metal Components



**Autoclavable**

**WE SUPPLY ON OEM TERM AS WELL**

### VetDose PRIME VIAL HOLDER SET

CATALOG	CAPACITY	DESCRIPTION	GRADUATION
VD-50-B	0.5ml	0.5ml, Vial Holder Set	0.05ml
VD-100-B	1ml	1ml, Vial Holder Set	0.05ml
VD-200-B	2ml	2ml, Vial Holder Set	0.1ml
VD-500-B	5ml	5ml, Vial Holder Set	0.25ml
VD-1000-B	10ml	10ml, Vial Holder Set	1.0ml

### PACKING CONTAINS :

Supply includes Metal body, Luer Lock nozzle, Plunger, Glass Barrel, 60ml PP Reservoir with Spare kit (Springs, PTFE Valve & Washers), Detailed operating manual & Viscous solution spring only 2ml & 5ml)

## VetDose Prime Bottle Mounted Set (BMS)

The **VetDose Prime** Bottle Mounted self-refilling syringe is another liquid feeding model consisting of a detachable threaded vial container with air tight lid. Large open mouth of the container ensures easy repeat filling of liquid without any wastage of time. The dribble valve inside the container allows smooth flow of liquid to the injector without any error. Vet dose bottle mounted set (BMS) is widely used by various poultry farms due to its operational comfort and technological advantage.

### SPECIFIC ADVANTAGES :

- Plunger tightness without 'O' Ring
- Barrel made of Borosilicate glass
- Clear visibility of Dose
- Plunger made of Stainless Steel
- Fully Autoclavable

PARTS IN CONTACT WITH LIQUID	MATERIAL
Glass barrel	Borosilicate Glass
Washer, barrel	FPM
Plunger	Stainless Steel
Valve system	Ni-Cr Brass
Valve	PTFE
Spring and ball valve	Stainless Steel
Sinker and Feed cannula	Ni-Cr Brass

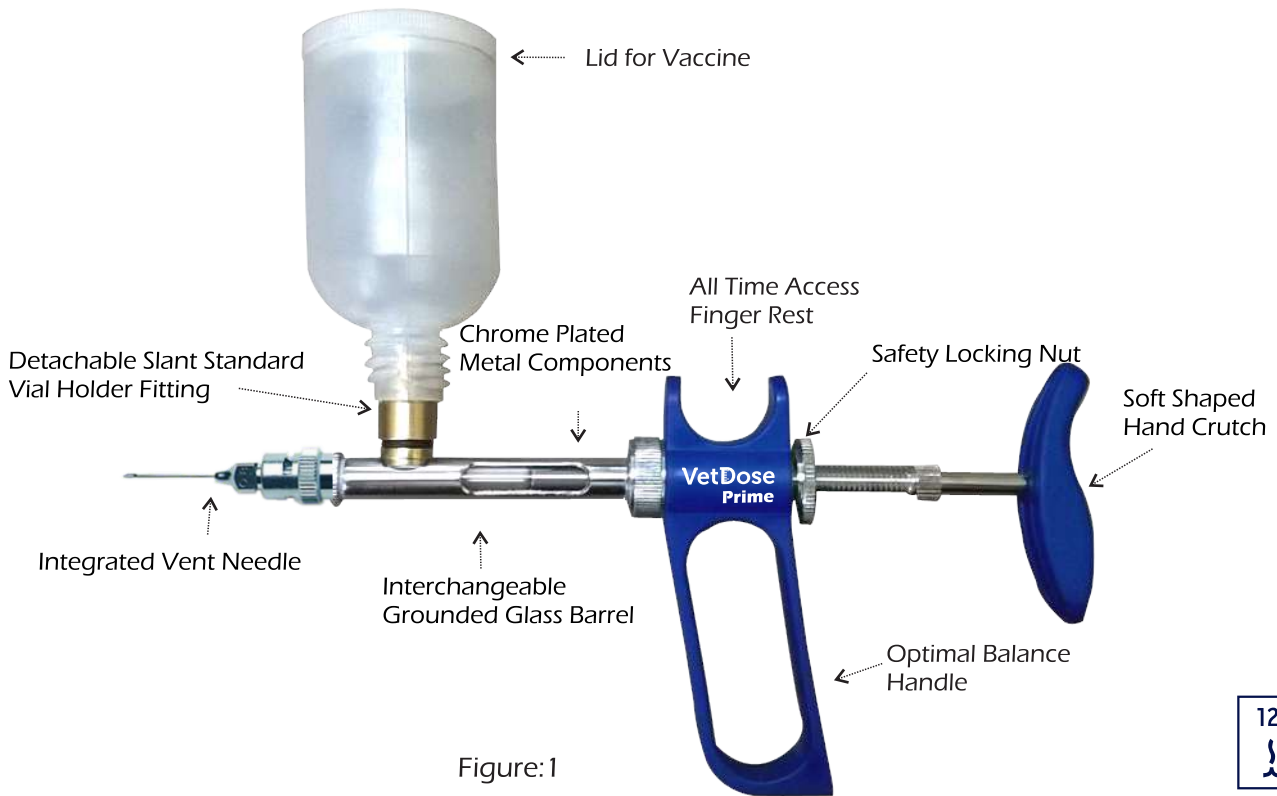


Figure:1

### WE SUPPLY ON OEM TERM AS WELL

Note : Needle Shown in image for Display only. Not Supplied with Instrument

### VetDose PRIME Bottle Mounted Set (BMS)

CATALOG	CAPACITY	DESCRIPTION	GRADUATION
VD-50-C	0.5ml	0.5ml, Bottle Mounted Set	0.05ml
VD-100-C	1ml	1ml, Bottle Mounted Set	0.05ml
VD-200-C	2ml	2ml, Bottle Mounted Set	0.1ml
VD-500-C	5ml	5ml, Bottle Mounted Set	0.25ml

### PACKING CONTAINS :

Supply includes Metal body, Luer lock nozzle, Plunger, Glass barrel, Integrated valve system, Vial holder set, Vials, Locking ring, Spare kit (Springs, Valve balls & Washers), Detailed operating manual and Viscous solution spring only 2ml & 5ml)

## VetDose Prime Twin Syringe

The **VetDose** Prime Twin Syringe is used during simultaneous administration of specific liquids. Each side consists of its own barrel & vavle assembly Volumes adjusted separately Needle spacing 28mm

Vial Feeding Twin syringe :

Instrument supplied with two each vial holder, rubber washer spare Kit and operating instructions.

Tube Feeding Twin syringe :

Model supplied with two each aspiration / vent cannuals, sinker, silicone tubing (1m), spare kit and operating instructions



- A. Outlet valve with Luer Lock Nozzel
- B. Reliable Intake Valve
- C. Medical quality Silicone Tubing
- D. Chrome Plated Metal Sinker
- E. Soft Shaped Hand Crutch
- F. Optimal Balance Handle
- G. Safety Locking Nut
- H. Chrome Plated Metal Components
- I. Interchangeable Grounded Glass Barrel

**WE SUPPLY ON OEM TERM AS WELL**

Note : Needle Shown in image for Display only. Not Supplied with Instrument



**Autoclavable**

**SPECIFIC ADVANTAGES :**

- Independent volume setting mechanisms
- 28mm spacing between needles. See optional manifold for single needle
- Central handle assures optimal balance
- Luer lock outlet valve
- Casing rotation adjustment
- Axial rod for rigidity control
- Comfortable soft shaped hand-crutch
- Chrome plated metal components
- Interchangeable ground glass barrel
- Medical quality silicone tubing
- Fully Autoclavable
- No need of servicing with silicone oil same effortless movement is ensured every time
- Safety Lock holds 20mm neck diameter vial firmly

**VetDose TWIN FEED TUBE SET**

PARTS IN CONTACT WITH LIQUID	MATERIAL
Feed tubing	Silicone
Glass barrel	Borosilicate Glass
Washer, barrel	FPM
Plunger	Stainless Steel
Valve system	Ni-Cr Brass
Washer, valve	PTFE
Spring and ball valve	Stainless Steel
Sinker and Feed cannula	Ni-Cr Brass

**VetDose TWIN VIAL HOLDER SET**

PARTS IN CONTACT WITH LIQUID	MATERIAL
Feed tubing	Silicone
Glass barrel	Borosilicate Glass
Washer, barrel	FPM
Plunger	Stainless Steel
Valve system	Ni-Cr Brass
Washer, valve	PTFE
Spring and ball valve	Stainless Steel
Sinker and Feed cannula	Ni-Cr Brass

**VetDose PRIME Twin Syringe (FTS)**

CATALOG	CAPACITY	DESCRIPTION	GRADUATION
VD-50-DA	0.5ml	0.5ml, Feed Tube Set	0.05ml
VD-100-DA	1ml	1ml, Feed Tube Set	0.05ml
VD-200-DA	2ml	2ml, Feed Tube Set	0.1ml
VD-500-DA	5ml	5ml, Feed Tube Set	0.25ml

**VetDose PRIME Twin Syringe (VHS)**

CATALOG	CAPACITY	DESCRIPTION	GRADUATION
VD-50-DB	0.5ml	0.5ml, Vial Holder Set	0.05ml
VD-100-DB	1ml	1ml, Vial Holder Set	0.05ml
VD-200-DB	2ml	2ml, Vial Holder Set	0.1ml
VD-500-DB	5ml	5ml, Vial Holder Set	0.25ml

## VetDose Classic Fixed Dose Full Metal Body (FMB)

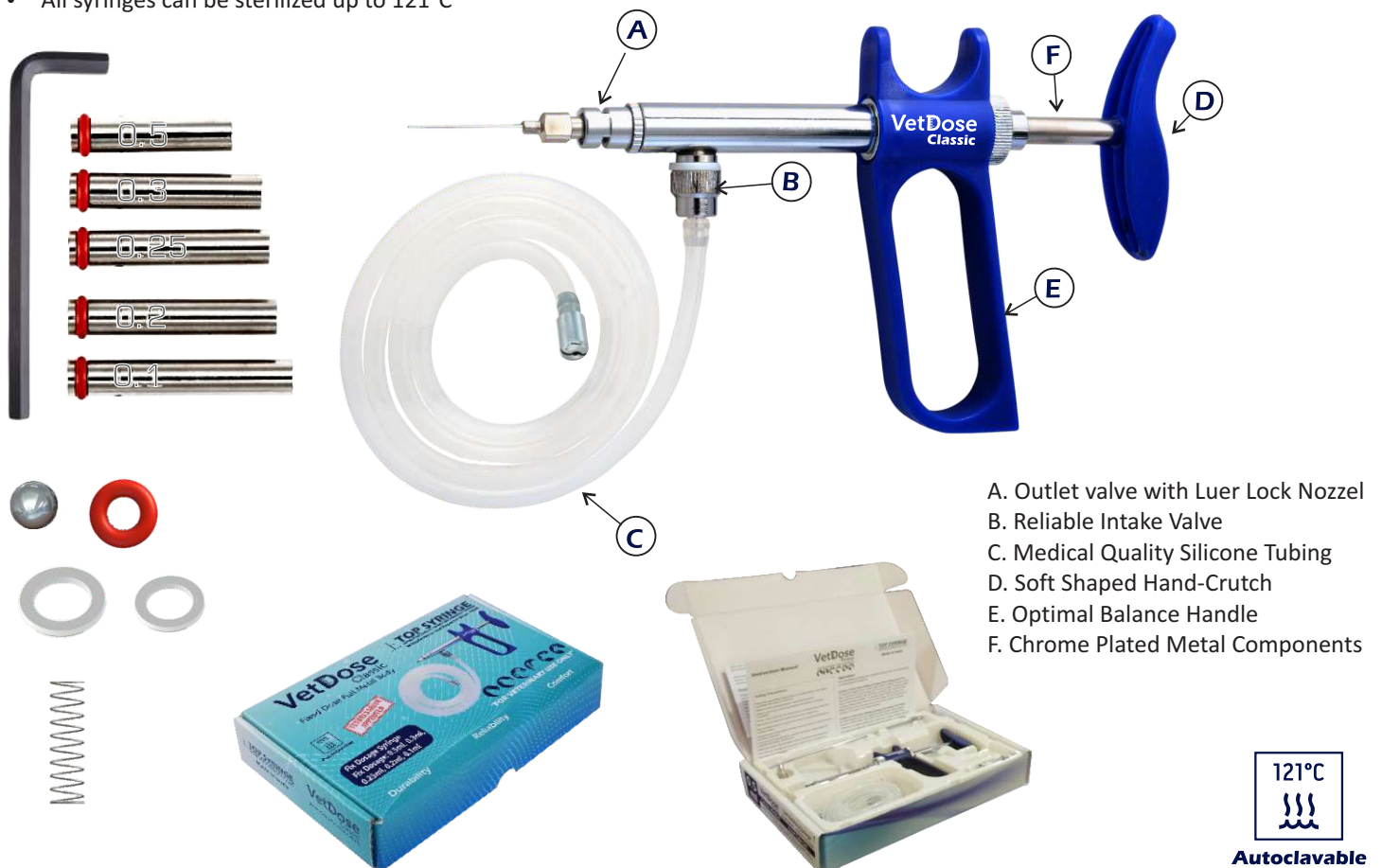
**VetDose** Classic Fixed Dose Full Metal Body is fix dosage automatic syringe specifically designed for veterinary. This ultimate full metal syringe is made with precision for reliability, durability and accuracy for mass treatment of poultry. This product is supplied with feeding tube that allows the injection of any kind of medical drug to your poultry and small animals. All the components are made with finest material, Oil proof and non corrosive with sterilization up to 121°C.

A Poultry measuring cup is provided to check volumetric before every use. The product is delivered with 5 different pistons for variable dosage. It comes with pistons : 0.5ml, 0.3ml, 0.25ml, 0.2ml & 0.1ml dosages.

### SPECIFIC ADVANTAGES :

- All metal body – no glass to be broken
- Highly versatile automatic vaccination tool
- Ergonomically designed for fatigue-free operation
- Cost-effective for poultry and small animals
- Fixed dosage ensures same accurate dosage and measure per inoculation
- Eliminates need to check settings while administering mass injections Long lasting syringe works for years
- Super easy to change piston per dosage – on each piston the measure is stamped
- **VetDose** valve system ensures accurate delivery with no room for error
- Economical parts are all interchangeable
- All syringes can be sterilized up to 121°C

PARTS IN CONTACT WITH LIQUID	MATERIAL
Feed tubing	Silicone
Glass barrel	Borosilicate Glass
Washer, barrel	FPM
Plunger	Stainless Steel
Valve system	Ni-Cr Brass
Washer, valve	PTFE
Spring and ball valve	Stainless Steel
Sinker and Feed cannula	Ni-Cr Brass



- A. Outlet valve with Luer Lock Nozzel
- B. Reliable Intake Valve
- C. Medical Quality Silicone Tubing
- D. Soft Shaped Hand-Crutch
- E. Optimal Balance Handle
- F. Chrome Plated Metal Components



**VetDose CLASSIC FIXED DOSE FULL METAL BODY (FMB)**

CATALOG	CAPACITY	DESCRIPTION	VOLUME
VD-50-FD	0.5ml	0.5ml, Fixed Dose	0.1- 0.5ml

Packing contains : Supply includes Metal body. Luer lock nozzle, S Pistons: 0.5ml, 0.3ml, 0.25ml, 0.2ml, 0.1ml, Integrated valve system, Feed cannula, Spare kit (Spring, Valve balls, Washers and 'O' Rings, Detailed operating manual )

CATALOG	DESCRIPTION
VD-50-FD-SK	Silicon 'O' ring(4), Steel Ball (5), Allen Key (1), Intake Washer (1), Nozzle Washer (1)
VD-50-FD-MP	One Each Metal Plunger of 0.5ml, 0.3ml, 0.25ml, 0.2ml & 0.1ml



**VetDose Classic Bottle Metal Body (BMB)**

is fix dosage automatic syringes specifically designed for veterinary

**SPECIFIC ADVANTAGES :**

- All metal body – no glass to be broken
- Highly versatile automatic vaccination tool
- Ergonomically designed for fatigue-free operation
- Cost-effective for poultry and small animals
- Fixed dosage ensures same accurate
- Dosage and measure per inoculation
- Eliminates need to check settings while administering mass injections Long lasting syringe works for years
- Super easy to change piston per dosage – on each piston the measure is stamped
- **VetDose** valve system ensures accurate delivery with no room for error
- Economical parts are all interchangeable
- All syringes can be sterilized up to 121°C

PARTS IN CONTACT WITH LIQUID	MATERIAL
Feed tubing	Silicone
Metal Casing	Ni-Cr Brass
O Ring	Silicone
Metal Piston: 0.5ml, 0.3ml, 0.25ml, 0.2ml & 0.1ml	Ni-Cr Brass
Valve system	Ni-Cr Brass
Washer, Valve	PTFE
Spring and ball valve	Stainless Steel



**Autoclavable**

## VetDose CLASSIC BOTTLE METAL BODY (BMB)

CATALOG	CAPACITY	DESCRIPTION	VOLUME
VD-50-BMB	0.5ml	0.5ml, Fixed Dose, Bottle Metal Body	0.1- 0.5ml

Packing contains : Supply includes Metal body. Luer lock nozzle, S Pistons: 0.5ml, 0.3ml, 0.25ml, 0.2ml, 0.1ml, Integrated valve system, Feed cannula, Spare kit (Spring, Valve balls, Washers and 'O' Rings, Detailed operating manual.)



CATALOG	CONTENTS
VD-50-BMB-SK	Silicon 'O' ring(4), Steel Ball (5), Allen Key (1), Intake Washer (1), Nozzle Washer (1)
VD-50-BMB-MP	One Each Metal Plunger of 0.5ml, 0.3ml, 0.25ml, 0.2ml & 0.1ml

## VetDose Neo Classic Fixed Dose Full Metal Body (FMB)

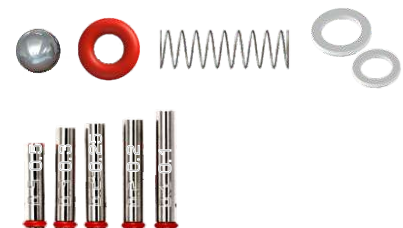


**Autoclavable**

## VetDose CLASSIC BOTTLE METAL BODY (BMB)

CATALOG	CAPACITY	DESCRIPTION	VOLUME
VN-50-FD	0.5ml	0.5ml, Fixed Dose	0.1- 0.5ml

Packing contains : Supply includes Metal body. Luer lock nozzle, S Pistons: 0.5ml, 0.3ml, 0.25ml, 0.2ml, 0.1ml, Integrated valve system, Feed cannula, Spare kit (Spring, Valve balls, Washers and 'O' Rings, Detailed operating manual.)



CATALOG	CONTENTS
VN-50-FD-SK	Silicon 'O' ring(4), Steel Ball (5), Allen Key (1), Intake Washer (1), Nozzle Washer (1)
VN-50-FD-MP	One Each Metal Plunger of 0.5ml, 0.3ml, 0.25ml, 0.2ml & 0.1ml

## VetDose Pox Injector ( Two Needles Pox Vaccinator)

The Automatic Pox Vaccinator with two needles enables you to perform the Fowl Pox Vaccination in one shot at a time. It prevents hand scratches with maximum success.



CATALOG	CAPACITY	DESCRIPTION	VOLUME
VD-500-POX	5ml	5ml, Two needles Pox vaccinator	0.5ml - 5ml

WE SUPPLY ON OEM TERM AS WELL

## VetDose Accessories



**VetDose Prime Glass Barrel**  
Glass Barrel, Grounded, Interchangeable

CAPACITY	CATALOG	PACK SIZE
0.5ml	VD-50-GB	Each
1ml	VD-100-GB	Each
2ml	VD-200-GB	Each
5ml	VD-500-GB	Each
10ml	VD-1000-GB	Each

**VetDose** self-refilling syringes spare graduated barrels are available The Barrels and plungers are interchangeable



**VetDose Prime Spare Kit**  
Spare bag includes Springs, Balls, Washer for Valve & Barrel

CAPACITY	CATALOG	PACK SIZE
0.5ml	VD-50-SK	Each
1ml	VD-100-SK	Each
2ml	VD-200-SK	Each
5ml	VD-500-SK	Each
10ml	VD-1000-SK	Each

Spare parts for the valve assembly are supplied in a dedicated bag with each **VetDose** self refilling syringe. Each bag includes : 2 Springs, 2 Balls, 2 Washers for valve, & 2 Barrel washer



**VetDose Feed Tubes**

CAPACITY	CATALOG	PACK SIZE
0.5-10ml	VD-1000-FT	-1x1mtr

**VetDose** syringe feed tubing are made of long lasting medical quality silicone. They are available in various length, cut or uncut. These tubes are autoclavable



**Nylon Brush**

CAPACITY	CATALOG	PACK SIZE
0.5ml, 1ml	VD-100-NB	Each
2, 5ml	VD-500-NB	Each

The nylon brush can be used for cleaning the inner surface of the glass barrel after use.



**VetDose Drenchers**

SIZE	CATALOG	DESCRIPTION	PACK SIZE
18G x 2"	VD-200-DS	Straight	3
16G x 4"	VD-400-DS	Straight	2
14G x 3"	VD-300-DS	Straight	3
18G x 2"	VD-200-DC	Curved	3
16G x 4"	VD-400-DC	Curved	2
14G x 3"	VD-300-DC	Curved	3

**VetDose** self-refilling syringes spare graduated barrels are available The Barrels and plungers are interchangeable



**VetDose Prime Viscous Spring**

CAPACITY	CATALOG	PACK SIZE
0.5ml	VD-50-VS	Each
1ml	VD-100-VS	Each
2ml	VD-200-VS	Each
5ml	VD-500-VS	Each

It is used viscous vaccine liquids to be injected



**VetDose Sinker**

CAPACITY	CATALOG
0.5-10ml	VD-5000-SI



**VetDose Prime Intake Valve**

CAPACITY	CATALOG
0.5-10ml	VD-5000-IV



**VetDose Luer lock**

CAPACITY	CATALOG
0.5-10ml	VD-5000-LL



**VetDose** Prime Protection Sleeve

CAPACITY	CATALOG	PACK SIZE
0.5ml	VD-50-PS	2
1ml	VD-100-PS	2
2ml	VD-200-PS	2
5ml	VD-500-PS	2
10ml	VD-1000-VC	2

The **VetDose** Protection Sleeve can be installed in a second. The sleeve provide for safety in reducing glass barrel breakage. Sleeve is not autoclavable.



Hatcheries Needles ( Standard Beveled )

SIZE	CATALOG	PACK SIZE
18G x 1/2"	VD-1850	12
20G x 1/2"	VD-2050	12

Veterinary (Hatchery) needles with standard luer lock hub & standard beveled cannula



**VetDose** Prime Rubber Washer

CAPACITY	CATALOG	PACK SIZE
0.5ml - 10ml	VD-5000-RW	10

It improves vial holder tightness when vial collar thinner than standard



**VetDose** Cannulas  
Short Vent Cannulas

CAPACITY	CATALOG	PACK SIZE
0.5-10ml	VD-5000-VC	Each

Long Feed Cannulas

CAPACITY	CATALOG	PACK SIZE
0.5ml - 10ml	VD-5000-RW	10

As supplied with **VetDose** Feed tube model syringes. The vent cannula are introduced into the stopper to allow air flow into the vial. When connected to syringe tubing, feed cannula provides for liquid aspiration from a bottle.



Mounted PP Reservoirs

SIZE	CATALOG	PACK SIZE
Bottle 60ml	VD-5000-BMS	Each

Large screwed on PP reservoirs with air inlet are available in three different capacities



**VetDose** Prime Vial Holder Conversion Set

CAPACITY	CATALOG	PACK SIZE
Slant vial holder conversion set	VD-5000-VHC	Each
Slant vial holder conversion set with valve	VD-5000-VHC	Each

Set include one each vial holder, tube connector, feed needle, locking ring, rubber washer, improves vial holder tightness when vial collar thinner than and bottle lock standard



**VetDose** Prime Feed tubing Conversion set

CATALOG	PACK SIZE
VD-5000-FTC	Each

Using these items VHS set can be converted as FTS set. Set includes silicone tubing, Sinkers, feed & vent special dual needle included cannulas

The **VetDose** Needles are manufactured using best quality cold rolled stainless steel strips with the latest technology. Needle Materials used are of high quality S.S. surgical grade 304 that meets ISO 9629 size specifications and meets applicable elemental content of ASTM F-899-84 standards.

They are ground and electropolished on high precision machines. They are assembled with strict Quality Controls in order to enable superior sharpness. This ensures injection administrations are with minimal pain



**Tempo**

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