Medical Devices

Ishwari Healthcare Pvt. Ltd.
Surgical Sutures & Mesh

Surgical Suture is used to close the edges of a wound or incision and to repair damaged tissue.

Sutures are often coated, especially braided or twisted sutures. They may also be dyed to make them easy to see during surgery. Suture needles are made of stainless or carbon steel. The needles may be nickel-plated or electroplated. Sutures needles of different types, size and curvature are available ranging from 4 mm to 60 mm in length and from 200 micron to as thick as size 6 of the suture in diameter. Packaging material includes water-resistant foil, such as aluminum foil, as well as cardboard and plastic.

At Ishwari Healthcare, we have always been thriving to produce products that are technologically and clinically conforming to international standard.

**Essential Suture Characteristics**
- Sterile
- Inert (non-reactive)
- Uniform diameter and size
- High tensile strength retention
- Can be used in any surgical procedure
- Easy to handle and tie down well
- Knot is absolutely secure and is absorbed once the purpose is over

**Needle Shapes**
- 1/4 Circle
- 3/8 Circle
- 1/2 Circle
- 5/8 Circle
- Straight

**Needle Profile**
- Round Body
- Reverse Cutting
- Tapercut
- Blunt Point
- Conventional Cutting
- Trocar Point

**Absorbable Sutures**
- Polyglycolic Acid (PGA)
- Polyglycolic Acid (PGA) Rapid
- Poliglecatin 910
- Monofilament Poliglecprone 25
- Monofilament Polydioxanone
- Plain Catgut
- Chromic Catgut

**Non Absorbable Sutures**
- Monofilament Polypropylene
- Coated Polyester
- Monofilament Polyamide Blue
- Monofilament Polyamide Black
- Black Braided Silk
- Virgin Silk Blue
- Stainless Steel
Surgical Sutures & Mesh

**PROCRYL**
Braided & Coated Polyglycolic Acid (PGA) Suture

- Coated, braided, versatile synthetic absorbable sterile surgical suture for medium term wound support
- Predictable absorption, excellent tensile strength & knot security, excellent handling properties, smooth tissue passage, outstanding pliability
- Colour: Violet & Undyed
- Wound Support: Medium term, 27-30 days
- Absorption Profile: 60-90 days
- U.S.P. Range: Gauge sizes 8-0 to 2

**PROCRYL Rapid**
Braided & Coated Polyglycolic Acid (PGA) Suture (Fast absorbable)

- Coated, braided, synthetic absorbable sterile surgical suture for short term wound support
- Quick and predictable absorption, short and consistent wound support, no need for suture removal, excellent tensile strength and knot security, smooth tissue passage
- Colour: Undyed
- Wound Support: Short term, 7-10 Days
- Absorption Profile: 42 days
- U.S.P. Range: Gauge sizes 3-0 to 0

**PROCRYL 910**
Braided & Coated Polyglactin 910 Suture

- Coated, braided, synthetic absorbable, sterile surgical suture for medium term wound support with well proven record and composition
- Excellent tensile strength, predictable absorption by simple hydrolysis, precise knot placement, minimal tissue reaction, coating ensures smooth tissue passage
- Colour: Violet & Undyed
- Wound Support: Medium term, 28-30 days | Absorption Profile: 56-70 days
- U.S.P. Range: Gauge sizes 6-0 to 2

**PROCRYL 910 Rapid**
Braided & Coated Polyglactin 910 Suture (Fast absorbable)

- Coated, braided, synthetic fast absorbable sterile surgical suture for short term wound support
- Excellent knot security, easy knot placement, absorbs quickly, ideal in short term tissue approximation, coating ensures smooth tissue passage
- Colour: Undyed
- Wound Support: Short term, 10-14 days
- Absorption Profile: 35-42 days
- U.S.P. Range: Gauge sizes 6-0 to 2

**PROSYNTH**
Monofilament Polydioxanone Suture

- Synthetic, absorbable, sterile surgical monofilament suture with excellent smoothness and pliability for short-medium term wound support
- Smooth and least tissue drag, higher initial tensile strength, predictable absorption, better knot security, easy to handle, minimized risk of suture line infection
- Colour: Undyed / Dyed (Violet)
- Wound Support: Short-medium term, 21 days | Absorption Profile: 90-120 days
- U.S.P. Range: Gauge sizes 5-0 to 2

**GUTPRO P**
Plain Catgut Suture

- Natural, absorbable, sterile surgical sutures for short-medium term wound support with exceptional strength
- Excellent tensile strength, uniform absorption and wound support, excellent knot security, smooth tissue passage, no entanglement during dispersion, packed in IPA to reduced memory and increase pliability
- Wound Support: Short-medium, 12-15 days (Plain) and 18-21 days (Chromic)
- Absorption Profile: 60-70 days (Plain) and 90-120 days (Chromic)
- Colour: Ivory (Plain) and Dark brown (Chromic) | U.S.P. Range: Gauge sizes 5-0 to 2

**GUTPRO C**
Chromic Catgut Suture
Surgical Sutures & Mesh

**PROPENE**
**Monofilament Polypropylene Suture**
- Non-absorbable, sterile monofilament surgical sutures, ideal for cardiovascular surgery
- Biologically inert, no adhering to tissue and efficacious, resist involvement in infection, minimum inflammatory reaction in tissue
- Colour: Blue
- Wound Support: Lifelong
- Absorption Profile: Non absorbable
- U.S.P. Range: Gauge sizes 6-0 to 1

**PROLON**
**Monofilament Polyamide (Nylon) Suture**
- Non-absorbable, sterile monofilament surgical sutures, remarkably smooth and are dyed to enhance visibility in tissues
- Elastic and very high tensile strength, good knot security and positioning, easy handling and flexible, exceptionally supple
- Colour: Black
- Wound Support: 2-3 years
- Absorption Profile: Non absorbable
- U.S.P. Range: Gauge sizes 10-0 to 2

**PROBOND**
**Braided & Coated Polyester Suture**
- Non-absorbable, braided and coated, sterile surgical sutures, is one of the ideal suture for cardiovascular and implant surgery for long term support
- Compactly braided for excellent strength and handling properties, silicone coated for smooth tissue passage, flexible & optimum knotting, negligible tissue reaction
- Colour: Green, White
- Wound Support: Lifelong
- Absorption Profile: Non absorbable
- U.S.P. Range: Gauge Sizes 6-0 to 5

**PROSILK**
**Black Braided Silk Suture**
- Non-absorbable, coated and braided, sterile surgical sutures, most widely used having smooth flow through tissue while maintaining knot security
- Silicon coated for excellent strength and smooth tissue passage, easy handling and flexible, coloured black for improved visibility
- Colour: Black
- Wound Support: 6 months
- Absorption Profile: Non absorbable
- U.S.P. Range: Gauge sizes 6-0 to 4

**PROSTEEL**
**Monofilament Stainless Steel Suture**
- Non-absorbable, sterile surgical steel sutures with most inert and provides maximum tensile strength
- Most inert among all suture material, stable band tightening and twisting, precision welding technology for firm needle attachment
- Wound Support: Lifelong
- Absorption Profile: Non absorbable
- Colour: Silver metallic
- U.S.P. Range: Gauge sizes 1 to 7

**PROWAX**
**Sterile Bone Wax**
- Sterile mixture of beeswax, paraffin wax and iso propyl palmitate
- Soft, easy to form and to apply
- Helps local haemostasis by functioning like a mechanical barrier
- Bio-chemically inert and partially resorbable
- For open heart and thoracic surgery, orthopaedic surgery

**PROPENE**
**Polypropylene Mesh**
Sizes:
- IH 611 - 6x11 cm
- IH 715 - 7.6x15 cm
- IH 151 - 15x15 cm
- IH 303 - 30x30 cm
- Monofilament synthetic non-absorbable, sterile surgical mesh constructed of knitted filament of extruded polypropylene
- High strength & burst resistance for permanent support
- Bio compatible, encourages natural repair
- Flexible, strong, elastic & transparent mesh
- Ideal porosity for high visibility, colonization and integration
- For the repair of abdominal wall hernias and other fascial defects

www.ishwarhealthcare.com
Infusion Therapy

I.V. Cannula | 1021-1028

 GENERAL FEATURES:
• Specially designed for continuous peripheral intravenous infusion
• Biocompatible and kink resistant catheter with extremely smooth inner and outer surface to ensure easy venipuncture with minimum trauma
• Siliconised, sharp bevelled, back cut ground Japanese stainless steel needle for quick and easy insertion
• Transparent flashback chamber for easy visual confirmation of venipuncture
• Color coded body / port cap as per ISO standard for instant sizes identifications
• Available in PTFE / FEP / PU Flex variants
• Also available with option of clear or radio opaque catheter

SIZES & TECHNICAL SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Gauge</th>
<th>Colour Code</th>
<th>Ext. Dia. mm</th>
<th>Length mm</th>
<th>Flow Rate ml/min</th>
<th>Packing Inner / Outer</th>
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<tr>
<td>14G</td>
<td>Orange</td>
<td>2.1</td>
<td>45</td>
<td>300</td>
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<tr>
<td>16G</td>
<td>Grey</td>
<td>1.8</td>
<td>45</td>
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<td>140</td>
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<td>25</td>
<td>36</td>
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<tr>
<td>26G</td>
<td>Purple</td>
<td>0.6</td>
<td>19</td>
<td>13</td>
<td>100/1000</td>
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</tbody>
</table>

PROTEK
I.V. Cannula with Injection Port & with Wings | 1021

• Injection port with one way silicone injection valve to facilitate extra medication
• Specially designed protection cap with a recessed plug to cover the injection port and to prevent contamination
• Angled and grooved wings for secure fixation
• Sizes: 14, 16, 17, 18, 20, 22, 24 & 26 G

PROTEK SAFETY
I.V. Cannula with Injection Port & with Wings with Safety Features | 1022

• Unique safety mechanism eliminates the risk of inadvertent needle stick injuries and blood born infections during needle withdrawal and disposal
• Passive, irreversible activation of safety mechanism
• Sizes: 14, 16, 17, 18, 20, 22, 24 & 26 G
Infusion Therapy

**PROCAN ALPHA**
I.V. Cannula without Injection Port & without Wings | 1026

- Specially meant for high risk cases where extra opening is not permitted to prevent risk of infection
- Streamlined, sleek design for easy orientation and insertion
- Sizes: 14, 16, 17, 18, 20, 22, 24 & 26 G

**PROCAN PEN**
I.V. Cannula without Injection Port & without Wings (Pen Type) | 1027

- Pen type variant in special secure packing with long and broad hub for good grip and control
- Very useful in high risk cases where extra opening is not permitted to prevent risk of infection
- Sizes: 14, 16, 17, 18, 20, 22, 24 & 26 G

**PROVY**
I.V. Cannula with Injection Port & with Wings | 1023

- Provided with clear and transparent catheter
- Streamlined design provides minimum area of contact with the body
- Sizes: 14, 16, 17, 18, 20, 22, 24 & 26 G

**PROCAN NEO**
I.V. Cannula without Injection Port & with small Wings for Neonates | 1025

- Special miniature, fine and smooth design to deal with the specific problems associated with small & soft vein cannulation
- Small flexible wings and absence of injection port permits easy handling and secure fixation
- Sizes: 24 & 26 G

**PROCAN PLUS**
I.V. Cannula with integrated 3-way Stopcock | 1028

- Provided with integrated side port for extra medication and simultaneous administration of the two fluids
- 360° rotation of the tap without limitation
- Sizes: 16, 18, 20 & 22 G

**PROVALE**
3-Way Stop Cock | 1031

- Designed to incorporate between infusion line and venipuncture device for additional infusion
- Made from fully transparent polycarbonate body for visualization of flow
- 360° rotation of the tap without limitation
- Available with blue and red pegs for arterial and venous line identification
- Lipid resistant variant also available

**PROTEK**
Obturator | 1058
(Stylet / Mandarin)

- For long term closure of I.V. Cannula
- Sizes: 14, 16, 17, 18, 20 & 22 G

**PROCAN**
I.V. Cannula without Injection Port & with Wings | 1024

- Useful in high risk cases where extra opening is not desirable to minimize risk of infection
- Projection on main body for two point grip and easy insertion
- Sizes: 14, 16, 17, 18, 20, 22, 24 & 26 G

**PROCAN PEN**
I.V. Cannula without Injection Port & with Wings | 1027

- Pen type variant in special secure packing with long and broad hub for good grip and control
- Very useful in high risk cases where extra opening is not permitted to prevent risk of infection
- Sizes: 14, 16, 17, 18, 20, 22, 24 & 26 G

**PROVALE XL**
3-Way Stop Cock with Extension Line | 1032

- Designed to minimize the movement at cannulation site by taking administration site away from the insertion site
- Fitted with male luer lock at one end for safe and secure connection and the 3-way stop cock at the other
- Tube length: 5 - 250 cms | Extension tube: I Ø - 3.0 mm, O Ø - 4.1 mm
Infusion Therapy

PROTEK
Low Pressure Extension Line | 1033

- Designed to make administration of fluids more convenient and suitable for low pressure applications
- Fitted with male and female luer locks for secure connection
- Tube length: 25 - 250 cms | Extension tube: I Ø - 3.0 mm, O Ø - 4.1 mm

PROTEK
High Pressure Extension Line | 1034

- Designed for arterial blood pressure monitoring
- For pressures up to 55 bar (800 psi)
- Fitted with male and female luer locks for secure connection
- Tube length: 25 - 250 cms | Extension tube: I Ø - 1.5 mm, O Ø - 3.0 mm

PROTEK
Peritoneal Dialysis Transfusion Set | 1038

- Specially designed “Y” shape transfusion set for administering dialysis solution
- Two lower control clamps help easy input and drainage of solution
- Provided with two upper control clamps to facilitate the alternative change of solution bottles

I.V. Infusion Set | 1041-1050

GENERAL FEATURES:
- Suitable for administration of Infusion fluid for medical therapy
- Clear, transparent and flexible drip chamber facilitates visualisation
- Efficient roller controller for accurate and unrestricted flow
- Super smooth kink resistant PVC tubing with standard length of 150 cms for easy visualisation of flow
- Also available with 0.2 micron IV in-line filter for filtration of microbes and prevention of air embolism hazard (Product code # 1050)

OPTIONS AVAILABLE:
- Air vented or Non vented spike
- With or without needle
- "Y" connector (latex or latex free)
- Needle free Y-site
- Luer lock or luer slip
- Flow regulator integrated into Infusion set
- DEHP free kink resistant tube to prevent phthalate related complications
- With customized tube length

Ref./Art. No. | Product | Specification | Drop Rate
--- | --- | --- | ---
1041 | PRODRIP I.V. Infusion Set | Tube I Ø : 2.70 mm, plain latex, Needle 21G | Approx. 20 drops/ml
1042 | PRODRIP I.V. Infusion Set with Airvent | Tube I Ø : 2.70 mm, plain latex, Needle 21G | Approx. 20 drops/ml
1043 | PROFUSION I.V. Infusion Set | Big drip chamber, Tube I Ø : 3.00 mm, bulb latex, Needle 21G | Approx. 20 drops/ml
1044 | PROFUSION I.V. Infusion Set with Airvent | Big drip chamber, Tube I Ø : 3.00 mm, bulb latex, Needle 21G | Approx. 20 drops/ml
1045 | PROFUSION MICRO I.V. Infusion Set with Micro Drip | Micro drip chamber, Tube I Ø : 3.00 mm, bulb latex, Needle 23G | Approx. 60 drops/ml
1048 | PROFUSION ULTRA I.V. Infusion Set Premium | Large drip chamber, DEHP free tube I Ø : 3.00 mm, Y-connector, luer lock, Needle 21G | Approx. 20 drops/ml
1050 | PROFUSION GUARD I.V. Infusion Set with in-line Filter | 0.2 micron filter, Large drip chamber, DEHP free tube I Ø : 3.00 mm, Y-connector, luer lock, Needle 21G | Approx. 20 drops/ml

PROTROL
I.V. Flow Regulator | 1051

- Designed to control the flow rate of IV fluids with range of 5 to 250 ml/hr manually
- With "Y" connector injection site for extra medication
**PROTEK**

**Scalp Vein Set | 1053**

- Designed to provide quick venous access with greater patient comfort during long term infusion
- Short beveled siliconised and thin walled Japanese needle facilitates atraumatic cannulation
- Colour coded butterfly shaped wings for easy handling and better fixation
- Sizes: 18 to 27 G

**Heparin Cap | 1059**

- To block IV cannulas when not in use
- Latex free

**PROTEK**

**Insulin Syringes | 1055**

- Excel quality micro fine 30G & 29G needles are siliconised to give minimal pain
- Clear transparent barrel and bold marking facilitates proper drug delivery
- Available in unit pack or multi pack of 10 units
- Sizes: U40, U100

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**Central Venous Access**

**PROCENT**

**Central Venous Catheter Set**

- 1061 - Single Lumen
- 1062 - Double Lumen
- 1063 - Triple Lumen

**GENERAL FEATURES:**

- For administration of hyperosmolar solutions, measuring CVP, haemodialysis, plasmapheresis, rapid infusion of fluid etc.
- Specially formulated, soft, kink resistant and extremely biocompatible polyurethanematerial provides strength during insertion and also softens at body temperature to conform to the body tissues and reduces the risk of vascular trauma
- Specially designed soft & beveled tip for smooth & easy insertion of catheter
- Soft flexible J-Tip guide wire prevents the vessel perforation and also provides good torqueto ensure firm insertion
- Radio-opaque catheter with clear and definite marking for correct placement of catheter tip
- Individually blister tray packed

**COMPLETE CVC SET CONSISTS OF:**

- Central Venous Catheter
- Introducer Needle
- J-Tip Guide Wire
- Vessel Dilator
- Syringe (Luer Lock)
- Scalpel
- Catheter Holder
- Catheter Holder Clamp
- Extension Line Clamp
- Injection Cap

<table>
<thead>
<tr>
<th>Ref./Art. No.</th>
<th>Lumens</th>
<th>Catheter Size</th>
<th>Catheter Length</th>
</tr>
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<tbody>
<tr>
<td>1061</td>
<td>Single</td>
<td>4 Fr</td>
<td>12, 16, 20 cm</td>
</tr>
<tr>
<td></td>
<td>Single</td>
<td>5 Fr</td>
<td>16, 20, 30 cm</td>
</tr>
<tr>
<td>1062</td>
<td>Double</td>
<td>7 Fr</td>
<td>16, 20, 30 cm</td>
</tr>
<tr>
<td>1063</td>
<td>Triple</td>
<td>7 Fr</td>
<td>16, 20, 30 cm</td>
</tr>
</tbody>
</table>

* Other sizes are available on customer request
**PROTEK Blood Banking**

**PROTEK Blood Transfusion Set | 1066**
- For transfusion of blood and blood components
- Clear, transparent and flexible drip chamber facilitates visualisation
- Super smooth kink resistant PVC tubing with standard length of 150 cms
- Approx. 200 micron blood filter and 18G hypodermic needle
- Approximately 20 drops / ml

**OPTIONS AVAILABLE:**
- Air vented or Non vented spike
- Single or Double drip chamber
- With or without needle
- “Y” connector (latex or latex free)
- Luer lock or luer slip
- With customized tube length

**PROTEK Blood Bag Systems | 1071-1076**

**GENERAL FEATURES:**
- Designed for collection, storage, transfusion and transportation of human blood and its components
- Siliconised ultra thin walled, sharp Japanese 16G needle allows smooth, painless penetration and higher flow rates
- Soft frosted and flexible kink resistant tubing with uniform wall thickness and markings at regular intervals
- Double, Triple and Quadruple blood bag systems are provided with snap tip and connector tube to allow smooth transfer of blood components and additive solution
- Special tamper evident and convenient write on label
- Individually packed in special multi layer pouch and multiples packed in moisture barrier aluminum pouch
- Tamper proof, safe and easy to open port covers to prevent contamination
- Anticoagulant solutions used are CPD for blood storage up to 21 days and CPDA for enhanced storage up to 35 days
- Optional CPD-SAGM anticoagulant solution variant for red blood storage up to 42 days
- Option of TOTM (Tri-Octyl-Tri-Mellitate) plasticised platelet transfer bag with sufficient gas permeability is suitable for extended storage of viable platelets for approximately 5 days at 22°C
- Also available with Leukodepletion filter to avoid complications that may arise due to leukocytes

**TECHNICAL SPECIFICATIONS:**

| Single Blood Bag | 1071 |
| Size (ml) - 100/250/350/450 |
| Anticoagulant - CPDA |

| Double Blood Bag | 1072 |
| Size (ml) - 350/450 |
| Anticoagulant - CPDA |

| Triple Blood Bag with Platelet Bag | 1073 |
| Size (ml) - 350/450 |
| Anticoagulant - CPDA/CPD-SAGM |

| Quadruple Blood Bag with Platelet bag | 1074 |
| Size (ml) - 350/450 |
| Anticoagulant - CPDA/CPD-SAGM |

| Penta Blood Bag | 1075 |
| Size (ml) - 350/450 |
| Anticoagulant - CPDA |

| Transfer Bag with Spike | 1076 |
| Size (ml) - 300 |

**PROTEK Haemodialysis Blood Lines | 1078**
- Specially designed for the patients to connect external system which extracts patient’s blood to the dialyzer and then returns patient's blood from the dialyzer after it has been purified
- Consists of two segments - arterial and venous - used during dialysis and attached with fistula and dialyzer

www.ishwaricare.com
Blood Banking

PROTEK Blood Collection Needles | 1080

- Designed for blood sample collection having safety features to minimize possible risks of blood borne infections or needle stick injuries to healthcare workers and patients
- Stainless steel needle lubricated with silicone
- Needle size: 20, 21, 22 & 23 G

Anaesthesia & Respiratory Care

PROTEK Suction Catheter

1090 | Plain with universal funnel shape connector
1090TC | With T type vacuum control valve for thumb control
1090FT | With Y shape vacuum control valve for finger tip control

GENERAL FEATURES:
- Designed for removal for secretion form mouth, trachea and bronchial tubes
- Distal end is open with one lateral eye for effective drainage
- Length: 50 cms | Sizes: 5, 6, 8, 10, 12, 14, 16, 18, 20, 22 & 24 FG

PROTEK Oxygen Catheter | 1091

- Designed for direct administration of oxygen via nasopharyngeal route
- Open distal end with multiple lateral eyes for even dispersion of oxygen
- Length: 40 cms
- Sizes: 6, 8, 10, 12, 14 & 16 FG

PROTEK Twin Bore Nasal Oxygen Set | 1092
(Nasal Oxygen Cannula)

- Designed for easy and efficient administration of oxygen
- Soft twin prong nasal tips to ensure equal volume of oxygen to both air passages for maximum patient comfort
- Multichannel tube ensures the continuous supply of oxygen even if the tube is accidentally kinked
- Tube Length: 200 cms
- Sizes: Adult, Paediatric & Neonatal

PROMASK VENT Venturi Mask | 1095
Fixed Concentration Mask

- Designed for the fixed and accurate administration of a variety of oxygen concentrations to the patients
- Two oxygen diluters, one for lower concentration of 24%, 26%, 28%, 30% (blue colour) and the other for higher concentration of 35%, 40%, 50% (white colour) for adjusting oxygen flow rate

PROMASK Oxygen Mask | 1093

- Specially designed for convenient oxygen therapy
- Consist of face mask with an specially designed nebulizer chamber for nebulizing patients
- Optimal particle size delivered at efficient nebulization rate of approximately 3cc in 10 min.

GENERAL FEATURES:
- Soft, clear, large anatomical shaped face mask for patient comfort
- Adjustable elastic strap and nose clip for proper positioning of mask
- Provided with 210 cm long multichannel tube to ensure continuous flow of oxygen even if tube is accidentally kinked
- Sizes: Adult & Paediatric

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PROTEK 
Respiratory Exerciser | 1096 
(Three Balls Model) 
- Helps to develop, improve and maintain respiratory fitness 
- Useful in restoring and maintaining lung capacity of post operative ambulatory and COPD patients 
- Transparent, well calibrated chambers with colour coded triple balls allows visual calibration and estimation of the patient’s progress 
- Air filter for enhanced protection 

PROTEK 
Guedel Airway | 1097 
(Oro-Pharyngeal Airway) 
- Specially designed to maintain an unobstructed oropharyngeal airway during general anaesthesia and in unconscious patients 
- Integral hard bite block to prevent biting of tongue and airway occlusion 
- Sizes: 000, 00, 0, 1, 2, 3, 4, 5 

PROTEK 
Tracheostomy Tube | 1099 (Plain) | 1099C (Cuffed) 
- Pilot balloon with integral one way valve to ensure one way air flow 
- High volume, low pressure, evenly shaped cuff with a pilot balloon integrated with the tube for secure positioning inside the trachea 

PROMASK LG 
Laryngeal Mask Airways | 1100 
- Intended for maintaining & supporting airway without tracheal intubation 
- Consists of an inflatable silicone mask integrated with a pilot balloon and a connecting tube 
- Pilot balloon for easy inflation & deflation of cuff 
- Standard 15 mm connector facilitates easy connection 
- Allows rapid access to the airway, without the support of a laryngoscope or muscle relaxants 
- Also available single use PVC laryngeal mask | Sizes: 1, 1.5, 2, 2.5, 3, 4 & 5 

PROCHEAL 
Endotracheal Tube 
1098 (Plain) | 1098C (Cuffed) 
- Pilot balloon with non return valve facilitates the cuff inflation & deflation 
- Designed to secure the airway and maintain the gas exchange in the lungs by inserting into the trachea through the oral/nasal cavity 
- Manufactured from special non toxic, clear, transparent, thermo sensitive siliconised PVC material to protect delicate mucosal tissues and readily conforms to the body contour 
- Proximal end fitted with standard 15 mm connector 
- Sizes (mm): 
  - Plain - 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0 & 5.5 
  - Cuffed - 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5 & 10.0 

GENERAL FEATURES:
- Provided with soft flexible flange for easy fixation 
- 15mm connector can be rotated in 360 degree direction & facilitates the safe connection to breathing system from any direction 
- Sizes (mm): 
  - Plain - 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5 & 9.0 
  - Cuffed - 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5 & 10.0 

Other products:
- Endotracheal Tube with Cuff 
- Catheter Mount
**Intended to administer lumbar/subarachnoid anaesthesia**
- Transparent hub provides rapid detection of CSF flashback
- Optimal sized stylet prevents tissue coring and obstruction of needle lumen
- Fine gauze needle design greatly reduced the risk of Post Dura Puncture Headache
- Available in Whitacre pencil point and Quincke point
- Needle length: 3.5"
- Sizes: 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27 G

**Epidural Kit**
- Epidural Kit are designed for short term & long term continuous anaesthesia & pain therapy
- Epidural Kit consist of:
  - Epidural Catheter: Provided with flexible and atraumatic soft tip
  - Epidural / Tuohy Needle: Provided with clear depth marking for accurate insertion depth reading
  - LOR Syringe: Provided for clear identification of epidural space
  - Threading Assist Guide: Provided to fit securely into the needle and assists in easy advancement of catheter
- Catheter Length: 1000 mm | Needle Length: 80 mm | Needle Sizes: 16 & 18 G | Syringe Capacity: 10 ml

**Urology**

**PRO U-BAG**

**Urine Collection Bags | 1101-1107**

**GENERAL FEATURES:**
- Suitable for closed urine drainage system for short and long term use
- Efficient non return valve to prevent the back flow of urine
- Smooth and kink resistant 90 to 100 cm long connecting PVC tube with grooved tapered connector for easy connection
- Precise graduation in ml to indicate the quantity of urine collected

**Urine Collection Bag | 1101** *(With Top Outlet)*
- Also available with specially molded handle for easy handling
- Capacity: 2000 ml

**Urine Collection Bag | 1103** *(With Bottom Outlet)*
- Also available with T type bottom outlet and sampling port
- Capacity: 2000 ml

**Urine Collection Leg Bag | 1105** *(With Bottom Outlet)*
- Suitable for day and night use during incontinence
- Provides freedom of mobility as the bag is attached to the leg of the patient
- Capacity: 800 ml
- Optional: Elastic leg straps; T type bottom outlet; Sampling port

**Urine Collection Bag | 1106** *(With Measured Volume Meter)*
- Designed for accurate measurement of hourly urine output
- Completely closed circuit eliminates the risk of contamination
- Urine meter directly attached to urine bag with overflow facility
- Capacity: 2000 ml
- Capacity of Volume meter: 250 ml, 500 ml

**Urine Collection Bag | 1107** *(For Paediatric)*
- For short term urine collection of neonates
- Provided with hypoallergenic self-adhesive for better grip and easy removal from soft skin of the infant
- Capacity: 100 ml

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**Urology**

**PROTEK**

**TUR SET | 1109** (Trans Urethral Resection Set)
- "Y" shaped set designed for endoscopic irrigation during trans urethral resection of prostate gland
- Thumb operated clamps helps quick and smooth change of bottles
- Proximal end fitted with flexible latex tubing for easy connection to endoscope

**PROCATH**

**Foleys Balloon Catheter | 1110**
- Designed for short or long term urinary drainage in the patients suffering from urinary tract problems
- Made from 100% natural silicon bonded latex rubber
- With a smooth tapered tip for easy introduction in urethra
- Symmetrical expansion of large capacity balloon to retain bladder efficiently
- Hard plastic valve for better control on inflation and deflation of balloon

<table>
<thead>
<tr>
<th>Sizes (FR)</th>
<th>Balloon Capacity (ml/cc)</th>
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<tbody>
<tr>
<td>Two Way</td>
<td>Three Way</td>
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<tr>
<td>8 &amp; 10</td>
<td>-</td>
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<tr>
<td>12 &amp; 14</td>
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<tr>
<td>16, 18, 20, 22, 24 &amp; 26</td>
<td>16, 18, 20, 22, 24 &amp; 26</td>
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**PROTEK**

**Male External Catheter | 1112** (Penile Sheath)
- Specially designed for urine incontinence for day and night use in male patients
- Manufactured from pure latex for soft and gentle feel
- Provided with soft adhesive coated strip for proper fixing on the penis
- Sizes: Small (20 mm), Medium (25 mm), Large (30 mm) & Ex. Large (35 mm)

**PROCATH**

**ALPHA All Silicon Foleys Catheter | 1111**
- Silicon Catheters are meant for very long term implantation
- 100% silicon construction from highly biocompatible and toxin-free silicone elastomer
- The non-stick surface of silicone makes it highly resistant to encrustation
- Technically advanced process forms the balloon as an integral part of the catheter, eliminating rough edges where the balloon meets the shaft
- Sizes: 6, 10, 12, 14, 16, 18, 20, 22, 24 & 26 FR

**PROTEK**

**Nelaton Catheter | 1113**
- Designed for short term bladder catheterization through urethra in males
- Atraumatic, soft, rounded, closed tip with two lateral eyes for efficient drainage
- Length: 40 cms
- Sizes: 6, 8, 10, 12, 14, 16, 18, 20, 22 & 24 FG

**PROCATH**

**Rectal Catheter | 1115**
- Designed for introduction of enema solution into rectum to release / aspirate rectal fluid
- Atraumatic, soft, rounded, closed tip with two lateral eyes for efficient drainage
- Length: 40 cms
- Sizes: 18, 20, 22, 24, 26, 28, 30 & 32 FG

**PROTEK**

**Female Catheter | 1116**
- Designed for short term bladder catheterization through urethra in females
- Atraumatic, soft, rounded, closed tip with two lateral eyes for efficient drainage
- Length: 18 cms
- Sizes: 6, 8, 10, 12, 14, 16, 18 & 20 FG
**Gastroenterology**

**PROTEK Infant Feeding Tube | 1121**
- For neonates and paediatric nutritional feeding
- Distal end is coned with two lateral eyes for efficient drainage
- Proximal end is provided with female luer mount for easy connection
- Length: 40, 50 & 100 cms
- Sizes: 4, 5, 6, 7, 8, 9 & 10 FG

**PROTEK Ryle's Tube | 1122**
- (Nasogastric Feeding Tube)
- For nasogastric introduction for nutrition and aspiration of intestinal secretion
- Distal end is coned with corrosion resistant steel balls sealed into the tube to facilitate easy insertion
- Four lateral eyes are provided for efficient aspiration & administration
- Tube with radio-opaque line, marked at 45, 55, 65 & 75 cms from the tip for accurate placement
- Length: 105 cms | Sizes: 6, 8, 10, 12, 14, 16, 18, 20, 22 & 24 FG

**PROTEK LEVIN'S TUBE | 1123**
- (Gastro Intestinal Feeding Tube)
- For gastro-intestinal feeding and aspiration of intestinal secretion
- Distal end is coned with four lateral eyes for efficient drainage
- Tube with radio-opaque line, marked at 45, 55, 65 & 75 cms from the tip for accurate placement
- Length: 125 cms | Sizes: 6, 8, 10, 12, 14, 16, 18, 20, 22 & 24 FG

**PROTEK Stomach Tube | 1124**
- For nasogastric introduction of nutrition & aspiration of intestinal secretion
- Distal end is coned with four lateral eyes for efficient drainage
- Sizes: 8, 10, 12, 14, 16, 18, 20, 22 & 24 FG

**PROTEK Kehr's t Tube | 1125**
- For short term post operative drainage of common bile duct
- Super smooth siliconised low friction surface prevents clogging
- Sizes: 10, 12, 14, 16, 18, 20, 22 & 24 FG

**PROTEK Colostomy Bag | 1126**
- For colostomy under closed system
- Manufactured from extra soft medical grade PVC sheet
- Coated with hypo-allergic adhesive to prevent skin maceration
- Hole diameter can be resize

**Surgery & Wound Care**

**PROVAC Close Wound Suction Unit | 1131**
- For close wound drainage under negative pressure post-operatively with option to use one or two catheters simultaneously
- Available in different sizes with matching size curved needle to meet moderate to heavy drainage needs
- Unit consists of: Bellow unit with connector; Connecting tube with clamp and "Y" connector; Curved needle with matching size catheter; Spare perforated Redon Drain catheter
- Sizes: 8, 10, 12, 14, 16

**PROVAC MINI Mini Close Wound Suction Unit | 1132**
- Designed for wound drainage under negative pressure for minor surgery and plastic surgery
- Unit consists of: Bellow container with capacity 50 ml; Curved needle with matching size catheter
- Sizes: 6 & 8 FG

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Surgery & Wound Care

**PROTEK Thoracic Drainage Catheter** (Chest Drainage Catheter 1133, 1133/C)
- Suitable for post operative drainage after cardio-thoracic and thoracic surgery
- Proximal end is fitted with specially designed tapered tongue for easy and non-traumatic insertion
- With radio-opaque line and marking at every 2 cms from the last eye to ascertain the depth of placement
- Also available with curved angle (90°) for easy aspiration of drainage (Product # 1133C)
- Length: 45 cm | Sizes: 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 36 & 40 FG

**PROTEK Thoracic Trocar Catheter** | 1134
- Specially designed for rapid non operative pleural and chest drainage
- Catheter is provided with sharp trocar needle for easy penetration, placement and proper handling
- Provided with markings at 5, 10, 15 & 20 cm from the last eye to ascertain depth of placement
- Sizes: 8, 10, 12, 14, 16, 18, 20, 22, 24, 28, 32, 36 & 40 FG

**PROTEK Abdominal Drainage Set** | 1135
- Intended for the use in post operative drainages from abdominal areas
- Soft abdominal drainage catheter with collection bag of capacity 2000 ml
- Sizes: FG 16, 20, 24, 28, 32, 36

**PROTEK Yankaur Suction Set** (With Standard Handle) | 1137
- Suitable for pre operative removal of secretion, blood and debris etc.
- Moulded Yankaur suction handle attached with flexible kink resistant long tube
- Provided with sleeve over vent which can be removed easily to make it vented
- Yankaur Handle available in standard or crown tip with or without vacuum thumb control
- Tube length: 210, 250 & 300 cms

**PROTEK Redon Drain Catheter** | 1138
- Provided with radio-opaque line and smooth eyes
- Markings on the tube at 19 cms from the distal tip
- Cross perforated length of tube: 14 cms
- Length: 50, 70, 120 & 170 cms
- Sizes: 8, 10, 12, 14, 16 & 18 FG

**PROTEK Intra costal drainage set** | 1136
- (Water Drainage Bag)
- Water sealed drainage system for collection of drainage fluid from thoracic and abdominal cavity
- PVC drainage bag available in 1000 ml, 2000 ml capacity

**PROSHARP Surgical Blades** | 1141
- Meant for surgical procedures
- Each blade is protected by VCI paper in a peel-open foil sachet
- Sterilized by Gamma Radiation of 2.5 M Rads
- Available in both stainless and carbon steel
- Sizes: 10, 10A, 11, 12, 15, 18, 20, 21, 22, 23, 24 & 25

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Other Products

PROTEK A.V. Fistula Needles | 1151

- Used to connect blood lines to the blood vessel through needle when dialysis is carried out through an internal fistula
- Siliconised ultra thin walled & sharp bevelled cannula to minimize trauma to the patient
- Back eye for uninterrupted blood flow through the needle
- Also available with rotating wings
- Tube Length: 30 cms
- Sizes: 15, 16 & 17 G

PROTEK Infant Mucus Extractor | 1152

- For aspiration of secretion from oropharynx in newly born babies to ensure free aspiration
- Convenient to extract mucus specimen for microbiological examination
- Spare plug cap provided for safe sealing and storage of specimen
- Also available with bacterial barrier filter at suction end
- Capacity: 25 ml | Tube Length: 40 & 50 cms
- Catheter Size: 6, 8, 10, 12 & 14 FG

PROTEK Umbilical Cord Clamp | 1135

- For clamping the umbilical cord after the birth
- Provided with security lock to prevent accidental re-opening
- Grooved clamping area to prevent slipping of the umbilical cord
- Available with re-opening facilities

PROTEK Umbilical Catheter | 1154

- Designed for intermittent or continuous access to the umbilical artery or vein of newly born or premature infants
- Tube with radio-opaque line, marked at every cm from the open distal end to ascertain the depth of placement
- Tube Length: 40 cms
- Sizes: 4, 5, 6 & 8 FG

Latex Surgical Gloves

PROGUARD Pre-Powdered | 1161

- Intended to use in invasive surgery for protective covering for the hands from contamination
- Special quality natural rubber latex
- Lightly powdered with bio-absorbable corn starch USP grade to prevent granulosa
- Anatomically shaped for better comfort and micro rough surface for better instrument grip
- Offers superior barrier protection, precise dexterity, tactile sensitivity and flexibility
- Extensively leached in hot flowing water to reduce extractable protein and chemical residues
- Bio burden and sterility tested
- Conforms to international standards such as ASTM D-3577, EN 455
- Also available powder free gloves to eliminate risks associated with glove powder
- Sizes: 5.5, 6, 6.5, 7, 7.5, 8, 8.5 & 9

PROGUARD PLUS Powder Free | 1162

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