ProSeal

NIOSH Compliant FDA **ONB** code cleared Microbial ingress of at least 168 hours after 10 activations 100% efficiency in achieving a dry disconnect on the transfer surfaces. Hazardous Drug Compatibility.

SAFE

<u>COST EFFECTIVE</u>

EASE of USE

ProSealTM is a registered trade mark of Epic Medical Pte Ltd



ProSeal_{TM} CSTDs meet the NIOSH requirements for a closed system transfer device. "A drug transfer device that mechanically prohibits the transfer of environmental contaminats into the system and the escape of hazardous drugs or vapour concentrations outside the system " Example

ProsealTM Vial Adptors / ToxiSeals are equipped with an external balloon, inaddition to a 0.1 micron sterile filter and activated carbon.⁻ilters

SAFE

<u>COST EFFECTIVE</u>

In addition to providing safety, the design adopted in ProSeal_{TM} CSTDs allows efficient manufacturability that resulted in price competitiveness. Our mission is to make closed system medication transfers accessible to all, pharmacists, nurses and patients will benefit from our innovative devices.

Example : The ProSeal Injector 421010 fits any standard luer lock syringe , reduces costs and enhances convenience when compared to dedicated syringes with injectors.

EASE of USE

Connecting ProSealTM devices involve a simple and quick Push/Pull action, unlike the typical rotating action in securing a luer connection.

The components are designed to be intuitively easy to use and compatible with each other.



Vial Adaptors

ProSeal Vial Adaptors (ToxiSeal) are available in several designs to meet the different vial stoppers presented by drug manufacturers. For use in concave vial stoppers, Toxiseals with concave spikes have fluid channel dimensions that ensure they are fully encapsulated within the vial after perforation.

Toxiseals are also available with or without external balloons. In both, a sterile 0.1 micron filter and activated carbon filter are built in features. Together with an integrated one-way valve, pressure equalization is automatically attained without the need to introduce air into the vial prior to withdrawing its contents.

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Vial Adaptors without external Balloon



423120 Non DMA 13 mm vial neck size 423130 Non DMA 20 mm vial neck size 423140 Non DMA 28 mm vial neck size

420330 DMA 13 mm vial neck size 420340 DMA 20 mm vial neck size 420350 DMA 28 mm vial neck size

Claws/skirt colors _________ for non Concave vial adaptors

Vial Adaptors with external Balloon

All models with external balloons have equalization

All models with external balloons have equalization pressure equivalent to 80mL balloon size

Claws/skirt colors

420420 DMA 13 mm vial neck size

420430 DMA 20 mm vial neck size

420440 DMA 28 mm vial neck size

for Concave vial adaptors



420200 420210 420220	Non DIVIA 13 mm vial neck size Non DMA 20 mm vial neck size Non DMA 28 mm vial neck size	000		
420300 420310 420320	DMA 13 mm vial neck size DMA 20 mm vial neck size DMA 28 mm vial neck size	000	420400 420410 420450	<i>DMA 13 mm vial neck size DMA 20 mm vial neck size DMA 28 mm vial neck size</i>
	Claws/skirt colors/ for non Concave vial adaptors	/		Claws/skirt colors for Concave vial adaptors





STERILE EO



Syringe Injectors

ProSeal Injectors offers 100% dry disconnect after fluid transfers. The residual volume of these injectors is only 0.02 ml and the fluid path materials are DMA compatible.

The syringe injectors require only easy and quick push-pull actions in connecting to other Proseal components- giving huge time savings in high workload situations. It is versatile and could be affixed to standard syringes, offering cost savings and also flexibility in keeping inventory of devices.

There are 2 variants of syringe injectors - one could be detached from the syringe nozzle Ref 421010 and another Ref 421050 for applications requiring the injectors to be permanently affixed, like transporting filled syringes.









Administration Sets (secondary infusion)

ProSeal Closed System Administration sets brings safety in patient wards to the next level. The distal connectors are Proseal injectors - giving drip free disconnections with the Y sites on the primary line. The spike ends are available in standard bag spikes or Proseal injectors integrated with a drip chamber.



REF 423430 ProSeal Secondary Set with Drip Chamber 20 drops/mi

REF 423430 ProSeal CS Secondary Set with Drip Chamber 20 drops/ml



STERILE

EO

Bag Spikes & In Line Pump Sets

Several antineoplastic agents contain a solvent DMA (N,N-Dimethylacetamide) that is incompatible with polycarbonate plastics in its undiluted form. For example Busulfan requires a dilution before use with devices made with such plastics. Polycarbonate is commonly used in IV administration devices including some closed system transfer devices(CSTDs). With the appropriate models of bag spikes and In Line Pump sets, pharmacist and nurses are assured of easier and safer work processes.



ProSeal Non Vented Spike Ref 423240



ProSeal Non Vented Spike DMA compatible Ref 423840



ProSeal Spike with Additive Port and Twist Off



ProSeal Vented Spike



ProSeal Spike with Additive Port and Twist Off. DMA compatible



ProSeal InLine Pump Set. DMA compatible.



STERILE EO

ProSeal



Add Mixture Devices (ADRx)



428110 Vial Neck 13 mm 428120 Vial Neck 20 mm

ADRx Single Dose

ADRx Devices facilitate the transfer of medication both lypholised agents as well as fluids from vials to flexible bags without the need for syringes and needles.

Squeezing the flexible bag with the connected vial in an upside down position pushes air into the vial, increasing its pressure.

Releasing the pressure exerted on the bag transfers the vial's contents into the final container.

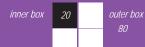


ADRx UniQ Dose Connects to bags with Luer ports/Valves

428310 Vial Neck 13 mm 428320 Vial Neck 20 mm

ADRx Multi Dose The contents from multiple vials could be transfered into one bag.

428210 Vial Neck 13 mm 428220 Vial Neck 20 mm



STERILE

EO



Other Accessories

Proseal range of closed system devices offer easy-to-use and effective solutions to current clinical practices. The unique characteristic of these solutions is the microbial ingress prevention of the connecting and mating surfaces in the transfer of medicinal fluids.



ProSeal Syringe to Syringe Transfer Adaptor Ref 423830



Chemo Click Injector MRI safe (*no metal parts*) *Ref 421040*



ProSeal Chemo Safe Syringe Adaptor Ref 421070

ProSeal Catheter Adaptor (for Foley Catheters) Ref 422090



Chemo Click Injection Siter MRI safe (no metal parts) Ref 422050



In Line Pump Set with Chemo Click Injector Ref 423660





Bag Spike with Chemo Click Additive Port Ref 423610



