

Needle Free Connectors

Features & Benefits

The needle free connectors is designed as puncture-free port during injection or aspiration. The silicone valve allows multiple usage and give infection control.

- The luer on this needle free device is compatible to all standard luer syringes and connectors
- Low priming volume and high flow rates
- Activation: more than 200 times
- Back pressure: 45 psi
- Positive pressure needle free connectors provide forward flushing when a syringe or IV line disconnecting from the cannula to avoid clotting, also eliminates the needs of manual flushing.

Needle Free Connectors Specifications

Configuration	Part Number	Part Image	Priming Volume	Flow Rate @ 1 psi
Male-Female	NFC01		0.09ml	550 ml/min
Female-Tube 2.4mm ID port	NFC02		0.12ml	380 ml/min
Female-Tube 4.0mm ID port	NFC05		0.24ml	510 ml/min
Y site 4.0mm ID ports	NFC06		0.19ml	360 ml/min

Needle Free Connectors (Positive Pressure) Specifications

Configuration	Part Number	Part Image	Flow Rate @ 1 psi
Male-Female 公母鲁尔	NFC08c		≥ 100 ml/min
Female-Tube 2.4mm ID port 母鲁尔-接管 2.4mm	NFC08b		≥ 100 ml/min
Y site 2.4mm ID ports Y 型接管 2.4mm	NFC08a		≥ 100 ml/min

Check Valves

Features & Benefits

The check valves are used to control the follow direction of fluids, and available in various configurations. Single Check Valves are designed to prevent back flow in one direction, and available in several opening pressure ratings from near zero opening pressure for gravity infusions to higher opening pressure to prevent gravity flow. Dual Check Valve is designed for 3-way flow control, to deliver fluid continuously.

- The luer on this check valve is compatible to all standard luer syringes and connectors
- Low cracking pressures
- Working in any spatial orientation
- Burst pressure: up to 350 psi
- Materials: Polycarbonate & Silicone
- Dual Check Valves

Single Check Valves Specifications

			Cracking	Maximum Back	
Configuration	Part Number	Part Image	Pressure	Pressure	Flow Rate@ 1 psi
Male-Female	BCV141		≤ 0.87 psi	45 psi	≥ 100 ml/min
Female-Tube 2.4mm ID/3.0mm OD port	BCV121	→	≤ 0.87 psi	45 psi	≥ 100 ml/min
Tube-Tube 2.4mm ID/3.0mm OD port	BCV111	→	≤ 0.87 psi	45 psi	≥ 100 ml/min
Male-Tube 2.4mm ID/3.0mm OD port	BCV131		≤ 0.87 psi	45 psi	≥ 100 ml/min

Dual Check Valves Specifications

Configuration	Part Number	Part Image	Cracking Pressure	Remark
Dual Check Valves 3-way	BCV08		1.5 – 5 psi	Female luer aspiration port Male luer discharge port
Dual Check Valves 3-way	BCV10		1.5 – 5 psi	Female luer aspiration port Tube discharge port

Needle Free & Check Valve Connectors Specifications

Configuration	Part Number	Part Image	Cracking Pressure	Maximum Back Pressure	Flow Rate@ 1 psi
Male-Female	NFC21		< 0.725 psi	45 psi	≥ 100 ml/min
Female-Tube 2.4mm ID/3.0mm OD port	NFC22		< 0.725 psi	45 psi	≥ 100 ml/min

^{*} Note:

indicates the flow directions

G-flow[™] Check Valves

Features & Benefits

The G-flowTM check valves are specifically designed with a near zero opening pressure for gravity infusion therapy.

- The luer on this check valve is compatible to all standard luer syringes and connectors
- Low cracking pressures (0-2Kpa)
- Working in any spatial orientation
- Materials: Polycarbonate & Silicone

G-flow[™] Check Valves Specifications

Configuration	Part Number	Part Image	Cracking Pressure	Maximum Back Pressure	Flow Rate@ 1 psi
Male-Female	BCV441		≤ 0.29 psi	45 psi	≥ 100 ml/min
Female-Tube 2.4mm ID/3.0mm OD port	BCV421		≤ 0.29 psi	45 psi	≥ 100 ml/min
Tube-Tube 2.4mm ID/3.0mm OD port	BCV411		≤ 0.29 psi	45 psi	≥ 100 ml/min
Male-Tube 2.4mm ID/3.0mm OD port	BCV431	□	≤ 0.29 psi	45 psi	≥ 100 ml/min

Flow Regulator

Features & Benefits

The flow regulators enables high accurate control of flow rate in gravity infusion for intravenous solutions.

Flow Regulator Specifications

Configuration	Part Number	Part Image	Flow Regulation Operating Range	Remark
Double Scale	11502	OPEN Approx 44% 10% 250 250 252 200 252 253	20 – 250 ml/h	Strictly follow the instruction for use

Instruction for Use

- 1) Place the I.V. solution container at about 80 cm above the outlet level.
- 2) Connect the I.V. set to the container.
- 3) Connect the Extension Set with Regulator to the I.V. set (not necessary if Regulator is already contained in I.V. set)
- 4) Open the clamp to begin priming the line.
- 5) Check that liquid is coming out of the end of the line.
- 6) Regulator is provided in the OPEN position.
- 7) PRIME Regulator completely turning Regulator from OPEN position to OFF position and then adjust the Regulator scale to the required value.
- 8) Connect the I.V. line to the catheter or needle.
- 9) Double check that Regulator is delivering the required flow rate by counting the drops.

Standard test conditions

- 1) Head pressure 80 cm (i.e.: differential height between the inlet and outlet of liquid in the I.V set)
- 2) Standard ISO8536-4 gravity I.V. line: vented drip chamber 20 drops/ml with 15 micron filter, tubing 3.0 x 4.1 mm, Y-site connector downstream with the Regulator and Male Luer lock connector at the end of the line.

 ISO8536-4
- 3) Needle used is 20G, 36 mm length.
- 4) Total length of the line 150 cm.
- 5) Liquid used: NaCl 0.9% physiological solution.

^{*} In order to change the flow rate, adjust height of I.V. solution container. Raise the container to increase the flow rate, lower the container to decrease it.

High Pressure Rotating Luer Connectors

Features & Benefits

- Available in 2 sized tubing ports
- © Eliminate tube twining during connecting and high pressure injecting
- Clear polycarbonate housing provides better visualization of air bubbles
- Pressure resistance up to 1200 psi

High Pressure Rotating Luer Connectors Specifications

Configuration	Part Number	Part Image	Material	Pressure Resistance
Male-Tube 3.65mm ID port	11106		Polycarbonate+silicone	1200 psi
Male-Tube 4.90mm ID port	11107		Polycarbonate+silicone	1200 psi
Male-Male	11111		Polycarbonate+silicone	1200 psi

Universal Male to Female Luer Lock Caps

Features & Benefits

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- © Standard male/female luer lock on each side with ISO80369-7 compliance
- Made with high quality of polyethylene, without natural rubber latex
- © Supplied in bulk or in single blister package and sterile

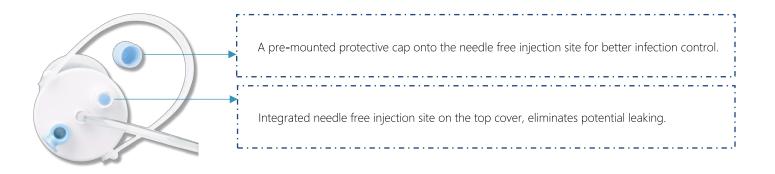
Universal Male to Female Luer Lock Caps

Configuration	Part Number	Part Image	Material	Packaging Details
Male to Female Luer White Lock Cap	60170W		Polyethylene	100 ea/box (11*7*10.5cm) 10 box/carton (37*23*14cm)
Male to Female Luer White Lock Cap	60170R		Polyethylene	100 ea/box (11*7*10.5cm) 10 box/carton (37*23*14cm)
Male to Female Luer White Lock Cap	60170B		P olyethylene	100 ea/box (11*7*10.5cm) 10 box/carton (37*23*14cm)

Burette Assembly

Features & Benefits

The Burette assembly are manufactured by automatic assembling line, and sold as individual set of components to IV Burette set factory for further re-processing.



Burette Assembly Specifications

Configuration	Part Number	Part Image	Remark
150ml needle free burette set assembly, with drip chamber at bottom	XDP04-A	A State of the last of the las	Customized scale printing according to specific requirement is acceptable
150ml needle free burette set assembly, with tubing port at bottom	XDP13-A	100 100 100 100 100 100 100 100 100 100	Customized scale printing according to specific requirement is acceptable

Custom Engineered Solutions

When special parts needed

We strive to provide our customers the best tooling and assembling solutions, from prototype to large volume production.

Our full capability of onsite tooling workshop, enables us to provide lifetime tool maintenance with repair included, to reduce the lead time and overall project cost.

We also provide full production support in order to meet your needs through the entire product life cycle:

Quality Support

Investigation capabilities, change control, etc.

Engineering Support

Validation testing can be done on site, etc.

Regulatory Support

Sterilization validation, packaging validation, etc.

^{*} All components are not made with natural rubber latex and all materials are DEHP-free 所有产品均不含乳胶成分、不含DEHP

^{*} All above connectors are shipped in bulk, non-sterile as medical components, customer shall take the responsibilities of qualification and/or verification of the components before their final assembling or repacking. 所有配件均为散装出货,采购商需要对配件组装或包装前的质量确认负责。

^{*} DR factory is FDA registered manufacturing facility with ISO 13485 certification. 德瑞工厂拥有ISO13485认证以及美国FDA注册认证。