

# EQUASHIELD® System - Technical Specifications

EQUASHIELD® addresses the need for a safe, easy-to-use, efficient drug transfer system for compounding and administration of hazardous drugs. The ultimate closed-system drug transfer device EQUASHIELD®, ensures safe and exposure-free transfers in that it offsets pressure differentials within a concealed system and effectively prevents the escape of vapors and aerosols. Through innovative design features, dry connectors with single motion simplicity and isolated syringe plunger, EQUASHIELD® prevents microbial ingress while it fully protects healthcare workers from dangerous exposure.

## System Components

COMPOUNDING



### Syringe Units

EQUASHIELD's fully enclosed Syringe Unit is equipped with a built-in self-sufficient pressure equalization system and leak-proof Dry connectors, ensuring contamination free transfer and safe administration of hazardous drugs. The factory pre-assembled ready to use Syringe Unit is available in 3ml, 5ml, 10ml, 20ml, 30ml, 35ml and 60ml syringe volumes.



### Vial Adaptors

EQUASHIELD's Vial Adaptor firmly snaps-on to any standard vial, providing a safe and contamination-free vial access port for the Syringe Unit. The available vial neck sizes are: 13mm, 20mm and 28mm.

ADMINISTRATION



### Spike Adaptors

The EQUASHIELD® Spike Adaptor firmly connects between any standard IV bag and tubing set, enabling safe injection of liquids into the IV bag using a Syringe Unit and subsequent administration through the tubing set.

An additional Spike Adaptor–W is used with the Syringe Unit in order to withdraw diluents, such as Saline or sterile water, from an IV bag.



ACCESSORIES



### Luer Lock Connectors


EQUASHIELD's male and female Luer Lock Connectors provide closed system and contamination-free protection to any standard luer lock ports, by converting them into a membrane sealed port, such as required when connecting two IV tubing segments (Secondary to Primary) or for safe injection of medication using the Syringe Unit (IV Push/Bolus). The two pieces lock together and can be released by simply pushing the lever.





### Protective Plug


EQUASHIELD's Protective Plug is an accessory providing additional protection for Female Luer Connector or Syringe Unit port, such as for safe transportation with disabled movement of the syringe plunger.


## Ordering Information

		<i>Item</i>	<i>Ref</i>	<i>Units/Box</i>	<i>Units/Master Case</i>
 SYRINGE UNITS		3 ml Syringe Unit	SU-3	60	240
		5 ml Syringe Unit	SU-5	60	240
		10 ml Syringe Unit	SU-10	70	140
		20 ml Syringe Unit	SU-20	60	120
		30 ml Syringe Unit	SU-30	50	100
		35 ml Syringe Unit	SU-35	50	100
		60 ml Syringe Unit	SU-60	40	80
		EZ60ml – an ultra thin Syringe Unit	SU-EZ60	30	60

		<i>Item</i>	<i>Ref</i>	<i>Units/Box</i>	<i>Units/Master Case</i>
 VIAL ADAPTORS		Vial Adaptor 13mm	VA-13	120	480
		Vial Adaptor 20mm	VA-20	240	480
		Vial Adaptor 20mm for concave vial stopper	VA-20C	120	480
		Vial Adaptor 28mm	VA-28	80	320

		<i>Item</i>	<i>Ref</i>	<i>Units/Box</i>	<i>Units/Master Case</i>
 BAG ADAPTORS		Spike Adaptor	SA-1	120	240
		Spike Adaptor-W	SA-W	60	240

		<i>Item</i>	<i>Ref</i>	<i>Units/Box</i>	<i>Units/Master Case</i>
 CONNECTORS		Luer Lock Adaptor	LL-1	120	480
		Female Luer Lock Connector	FC-1	120	480

		<i>Item</i>	<i>Ref</i>	<i>Units/Box</i>	<i>Units/Master Case</i>
 ACCESSORIES		Protective Plug	PP-1	120	480

## Material Specifications

<i>Item:</i>	<i>Syringe Unit</i>	<i>Vial Adaptor</i>	<i>Spike Adaptor &amp; Spike Adaptor-W</i>	<i>Female Connector</i>	<i>Luer Lock Adaptor</i>
<b>Material:</b>					
Polypropylene	Syringe Body, Connector Housing	Protective cap	Protective cap	Connector Housing	
Stainless Steel	Plunger rod, Screw, Cannula			Cannula	
Polyisoprene	Piston, Membrane	Membrane	Membrane	Membrane	Membrane
POM	Lid, Lid disc, Needle Compartment			Needle Compartment	
Silicon	Seal Ring, Lubricant	Lubricant	Valve		Valve
EPDM	O-ring				
ABS	Handle	Housing	Housing		Housing
PVC (DEHP Free)			Spike Port		
Hydrophobic Membrane			Membrane		Membrane
<b>Materials Compatibility</b>	<ul style="list-style-type: none"> <li>Complies with USP Class IV guidelines</li> <li>Compatible for use in Chemotherapy Compounding and Administration</li> <li>DEHP, Latex and BPA free</li> </ul>				

## Specific Data

<i>Item:</i>	<i>Syringe Unit</i>	<i>Vial Adaptor</i>	<i>Spike Adaptor &amp; Spike Adaptor-W</i>	<i>Female Connector</i>	<i>Luer Lock Adaptor</i>
<b>Priming Volume</b>	0.07ml: 3ml-10ml 0.08ml: 10ml-60ml	0.05 ml	0.24 ml	0.08 ml	0.09 ml*
<b>Needle Size</b>	G17 : 20ml-60ml G19 : 3ml-10ml			G17	
<b>Needle Length</b>	1"			1"	
<b>Needle Tip</b>	Non-Coring Pencil-Point tip; Needles do not penetrate vial stopper			Non-Coring Pencil-Point tip; Needles do not penetrate vial stopper	
<b>Flow Rate</b>			11 Liter per hour at 3' height difference, fully assembled with IV bag and secondary tubing	4 Liter per hour at 3' height difference, where Female Connector + Luer Lock Adaptor are fully assembled at one end of a secondary tubing; and IV bag + Spike Adaptor on the other end	
<b>Notes:</b>	*Measured with male luer attached				

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