

HALKEY | ROBERTS®

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A History of Innovation

Halkey-Roberts is a global leader in the design and manufacture of valves for medical device companies whose products require precise delivery of fluids and gases.

Since 1941, Halkey-Roberts has focused innovation in the production of products to the highest quality standards. Our success in molding and high speed assembly of thermoplastics and silicones is rooted in our unwavering commitment to our customers, end-users, and employees. We constantly invest in our people, infrastructure, and technologies and every product we make is supported by R&D, Materials, Manufacturing, and Quality, Engineers. Every customer is supported by a responsive customer service team that is thoroughly educated about our products. Our state-of-the-art facility in St. Petersburg, Florida, USA, is outfitted with the very best equipment, and is staffed by highly trained associates. Our total dedication to what we do enables us to produce valves that far exceed Six Sigma guality standards, and makes us the choice of major medical device companies around the world.

Images herein are not to scale. For technical information and drawings, terms and conditions, product disclaimers and patent information, please visit our website: www.halkeyroberts.com



Swabable Valves

A comprehensive line of high flow, split septum swabable valves for infection control and the elimination of needles.

The unique and innovative patented design allows the valve to be used in a wide variety of demanding applications where high flow and a closed system is a must.

The valves are DEHP free, made with ISO-10993 materials, and not made with natural rubber latex. Bodies are available in BPAfree materials and polycarbonate.

The valves mate securely with standard syringes and connectors.

Swabable Products

	Description
a.	Straight male threaded
b.	Y-port
c.	Tube End
d.	Bondable valve
e.	T-Port Large-Bore
f.	T-Port Small-Bore
g	Bag valve
h.	Bag Break-off valve
i.	Barb Valves
j.	20 mm vial cap
k.	13 mm vial cap
I.	Build-In Assembly
m.	Hi-Flo Lever Handle Stopcock
n.	Standard Lever Bondable Stopcock
о.	Standard Lever Handle Stopcock
p.	T-Handle Stopcock with 4.0 mm Tubing Pocket
q.	T-Connector valve
r.	Multiport Manifold

Images not to scale.

Straight Valves



245204024 polycarbonate 245204050 BPA-free copolyester



245204524 polycarbonate clear septum



245204024R Red polycarbonate

Utilize a female luer lock and male luer lock for ease of attachment to any luer connector.

Straight valves are available in polycarbonate (clear and red housing) and BPA-free copolyester.

Y-port Valves



245624024 polycarbonate 0.160 inch ID (4.01 mm)

245624050 BPA-free copolyester 0.160 inch ID (4.01 mm)

245634024 polycarbonate 0.142 inch ID (3.6 mm) Available in two standard tubing sizes for maximum flexibility. Y-ports are available in polycarbonate and BPA-free copolyester materials.

P	Performance Characteristics		
	Priming Volume: 0.19 ml		
Flow Rate Averages**			
	1 psi: 410 ml/minute		
	3 psi: 710 ml/minute		
	5 psi: 930 ml/minute		

* 24,600 ml/hr @ 30 inch height

Priming Volume: 0.09 ml Flow Rate Averages** 1 psi: 550 ml/minute 3 psi: 1050 ml/minute

5 psi: 1300 ml/minute

Performance Characteristics

** 33,000 ml/hr @ 30 inch height

Bondable Valves



245501024 No check valve



245551024 With integrated back check valve

Designed to bond to either 4 mm I.D. tubing or open luer connectors. Available in blue, green and red caps.

Also available with integrated back check valve.

Performance Characteristics

Priming Volume (without tubing): < 0.13 ml

Flow Rate Averages**

1 psi: 440 ml/minute no check valve

1 psi: 375 ml/minute with check valve

** 26,400 ml/hr @ 30 inch height

Tube End Valves





245520024	2.0 mm (0.078 inch)
245525024	2.5 mm (0.098 inch)
245528024	2.8 mm (0.110 inch)
245530024	3.0 mm (0.118 inch)
245537024	3.7 mm (0.145 inch)
245540024	4.1 mm (0.160 inch)

Designed to reduce assembly costs and enhance reliability for set manufacturers by eliminating a luer connector and a bonding operation.

Available in five sizes with clear or red caps.

Performance Characteristics
Priming Volumes (without tubing)
2.0, 2.5, 2.8, 3.0 mm = 0.12 ml
3.7 mm = 0.22 ml
4.1 mm = 0.24 ml

Flow Rate Averages			
	1 psi	3 psi	5 psi
2.0 mm (ml/min)	270	480	630
2.5 mm (ml/min)	380	700	900
2.8 mm (ml/min)	470	830	1070
3.0 mm (ml/min)	472	832	1090
3.7 mm (ml/min)	480	840	1110
4.1 mm (ml/min)	510	890	1190

T-Ports



6.6 mm T-Port 245424024



6.6 mm T-Port (red cap) 245425024 245425024B

6.6 mm T-Port (blue cap)

Small-Bore T-Ports



245454024 4.0/4.1 mm T-Port 245474024 3.2 mm T-Port



245464024 2.0 mm T-Port 245484024 2.35 mm T-Port Can be bonded in line on tubing sets to provide an access port for taking samples or injecting medication. A typical application is hemodialysis.

Perfe	ormance Characteristics	
P	Priming Volume: <0.15 ml	
F	Flow Rate Averages**	
	1 psi: 540 ml/minute	
	3 psi: 950 ml/minute	
	5 psi: 1200 ml/minute	

** 32,400 ml/hr @ 30 inch height

Can be bonded in line on tubing sets to provide an access port for taking samples or injecting medication.

Performance Characteristics

Priming Volume: <0.15 ml

Flow Rate Averages				
	1 psi	3 psi	5 psi	
4.0/4.1 mm and3.2mm (ml/min)	540	950	1200	
2.0 mm (ml/min)**	104	187	239	

** Flow is with 1 mm ID tubing

Bag Access and Break-off Valves



245110024 Bag Valve

Our needlefree bag and break-off valves provide an innovative way to access and fill IV solution bags.

The valves provide a closed system with convenient luer access eliminating the need for spike ports and needles/sharps.

Barbs



245504024 1/4 inch Barb 245516024 3/16 inch Barb



245508024 1/8 inch Barb

Vial Caps



245720021 13 mm cap



245700021 20 mm cap

Our barbed valves are ideal for use as sampling ports in biopharmaceutical applications and are designed for easy assembly directly to tubing without the use of a luer connector or solvents and adhesives.

Performance Characteristics

Priming Volume: 0.30 ml

Flow Rate Averages

	1 psi	3 psi	5 psi
1/4 in (ml/min)	559	1012	1334
3/16 in (ml/min)	658	1038	1108
1/8 in (ml/min)	367	654	857

Our patented three-piece design simplifies removing or injecting fluids from/into vials and bags. Typical applications include pharmacy and home healthcare.

Performance Characteristics			
Priming Volume: 0.06 ml			
Flow Rate Averages**			
Pressure	13 mm 20 mm		
1 psi	200 ml/min 200 ml/min		
3 psi 400 ml/min 340 ml/min		340 ml/min	
5 psi 500 ml/min 420 ml/min			

** 21,000 ml/hr @ 30 inch height



Break-off Valves 245112024 fits 6.0 mm I.D. tubing 245113024 fits 6.6 mm I.D. tubing

Performance Characteristics

Priming Volumes: Bag Valve 0.25 ml (without tubing) Break-off: 0.30 ml

Flow Rate Averages			
Pressure	Bag*	Break-off**	
1 psi	psi 520 ml/min 240 ml/min		
3 psi	920 ml/min	430 ml/min	
5 psi	1220 ml/min	550 ml/min	

* 31,200 ml/hr @ 30 inch height ** 14,400 ml/hr @ 30 inch height

T-Connector Swabable Valve



T-Connector

Build-In Assembly

245510024

The T-Connector Swabable Valve incorporates our valve technology in an extension set compatible component with a micro-bore tubing pocket (.088"/2.2mm).

It offers High Flow, Clear housing for enhanced visibility and is compatible with power injection up to 325 psi.

Performance Characteristics			
Priming Volume 0.164 ml			
Flow Rate Averages			
1 psi: 390 ml/minute			
3 psi: 690 ml/minute			
5 psi: 890 ml/minute			

Multiport Manifold



245800912

Multiport Manifold

The Robertsite® Multiport Manifold includes six gravity activated check valves along with a flow controlled inlet port.

Ideal for OR/Surgery, ICU, Oncology, and CCU applications.

Performance Characteristics		
Priming Volume (without tubing)		
Manifold Only = 1.4 ml		
Flow Rate Averages		
1 psi: 229 ml/minute		
3 psi: 407 ml/minute		
5 psi: 525 ml/minute		



245680024 **Build-In Assembly** Needlefree build-in assembly valves are designed to create a low profile swabable access site that can be integrated into your product via sonic welding.

Performance Characteristics			
Priming Volume: < 0.2 mL			
Flow Rate Averages			
1 psi: 656 ml/minute			
3 psi: 1041 ml/minute			
5 psi: 1319 ml/minute			

Stopcocks



245824024 'T' Handle 'Hi-Flo' 245814024 Lever 'Hi-Flo'



245834024W Standard Lever Handle 245844024B Standard 'T' Handle



245864024B Standard 'T' Bondable 245854024W Standard Lever Bondable



245874024W Tube Port Stopcock

Our low profile series stopcocks offer the safety of a closed system with the versatility of a 4-way stopcock.

They enhance infection control and help to prevent accidental blood loss or leakage.

Performance Characteristics		
Priming Volume: <0.35 ml		
Hi-Flo Flow Rate Averages**		
1 psi: 428 ml/minute		
3 psi: 738 ml/minute		
5 psi: 917 ml/minute		

Standard Flow Rate Averages**			
1 psi: 396 ml/minute			
3 psi: 587 ml/minute			
5 psi: 687ml/minute			

** 15,300 ml/hr @ 30 inch height

Transfer Valve

The swabable transfer value is ideal for stem cell, biopharmaceutical and drainage applications involving large volumes and/or viscous substances.

The transfer valve can be accessed with a standard catheter-tipped syringe.

Available with a polycarbonate body and silicone stem, the valve is made from ISO-10993 compliant, DEHP-free materials and not made with natural rubber latex.



transfer valve with catheter syringe





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Male Luer Valves

Our Male Luer Valves (MLV) are ideal for flushing and drainage applications, IV solutions and home healthcare.

The MLV is designed to attach directly to tubing during set assembly. It eliminates dripping and leakage when disconnected and no clamping is required.

The valves can be used to access a mating female luer connector or luer activated valve.

The valve is available in Polycarbonate. BPA free materials available.

All materials are Gamma resistant, ISO-10993 compliant, DEHP-free and not made with natural rubber latex.

Male Luer Valve Products

	Part No.	Description
a.	251001001	MLV with 4.0 mm tube end
b.	251001002	MLV with female luer lock
c.	251001003	MLV with 0.125 inch barb
d.	251001004	MLV with 6.6 mm tube end

Images not to scale.





Luer Activated Valves

Our syringe check valves are designed to fill, hold and release controlled amounts of fluids and gases on demand.

They are used on endotracheal tubes, tracheostomy tubes, and gastric and urethral catheters for balloon inflation and deflation and specialized balloon catheter applications.

The valve stem and body mate securely with all standard luer syringes.

Luer Activated Products

Part No.	Description	Materials
V24500 series	two-piece crimp on check valve	Body: ABS Stem: Silicone
V246 series	low profile luer check valve	Body: Polycarbonate Stem: Silicone Spring: Stainless steel
24706300 series	short body luer check valve	Body: PVC Stem: Silicone Spring: Stainless steel
V24300 series	luer syringe check valve	Body: Polypropylene, PVC, Polycarbonate, ABS Stem: Silicone
V24200 series	luer activated check valve	Body: Polypropylene Stem: Silicone
	Part No. V24500 series V246 series 24706300 series V24300 series V24200 series	Part No.DescriptionV24500 seriestwo-piece crimp on check valveV246 serieslow profile luer check valve24706300 seriesshort body luer check valveV24300 seriesluer syringe check valveV24200 seriesluer activated check valve



d.





Luer Lock Access Valves

As replacements for needle ports, this comprehensive line of needlefree access sites can be used for drug delivery/IV administration applications.

They can also be used on a variety of balloon catheters such as endotrachael tubes, tracheostomy tubes, gastric feeding tubes as well as urethral catheters.

All materials are USP Class VI and not made with natural rubber latex.

Luer Lock Access Products

	Part No.	Description	Materials
a.	2471060 series	needlefree check valve	PVC
b.	2470100 series	needlefree check valve	PVC, polycarbonate, ABS, polypropylene
c.	2476000 series	needlefree T-port	PVC, polycarbonate
d.	2470600 series	needlefree short body check valve	Body: PVC, polycarbonate Stem: Silicone Spring: Stainless steel
e.	247280022	needlefree medium body check valve	Body: Polycarbonate Stem: Silicone Spring: Stainless steel
f.	2479000 series	needlefree Y-port	PVC
g.	2472000 series	needlefree check valve	PVC





One-Way Check Valves

Designed as dependable, in-line check valves or directional flow control valves for liquid and air.

For maximum flexibility, the valve stem and body mate securely with all standard luer syringes and various tubing sizes.

All materials are USP Class VI and not made with natural rubber latex.

One-Way Valve Products

	-		
	Part No.	Description	Materials
a.	240220424	one-way disc valve with luer lock	Polycarbonate housing Silicone seal disc
b.	240270524	one-way disc valve	Polycarbonate housing Silicone seal disc
C.	710ACLNF	one-way check valve	Body: Polypropylene Stem: Silicone
d.	V24310 series	one-way poppet valve	Body: Polypropylene, PVC Stem: Silicone
e.	V24300VG	one-way ball check valve	Body: PVC Ball: Nylon





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Pressure-Activated/Relief Valves

Designed to hold and release gases and/or fluids at predetermined pressures automatically.

The relief valves are used for a variety of purposes including tube-end and in-line pressure control, over or under pressure control, and IV drug delivery.

All plastic materials are USP Class VI and not made with natural rubber latex.

Pressure Activated Products

	Part No.	Description	Materials
a.	730ROAG series	pressure-activated relief valve	Housing: Medical grade acrylic Valve: Silicone Spring: Stainless steel
b.	730ROAR series	pressure-activated relief valve	Housing: Acetal Valve: Silicone Spring: Stainless steel
c.	24781 series	pressure relief T-port	Polycarbonate, PVC
d.	246 series	pressure-activated luer valve	Polycarbonate, PVC
e.	24630 series	pressure-activated barb valve	Polycarbonate, PVC
f.	24650 series	luer valve with MLS adapter	Polycarbonate, PVC
g.	246203 series	barb valve with MLL adapter	Polycarbonate, PVC
h.	24620 series	luer valve with MLL adapter	Polycarbonate, PVC





Tubing Clamps

Halkey-Roberts invented the precision plastic tubing clamp almost 50 years ago. Although widely copied, no company can match our expertise. Our clamps are designed for both standard and specialized applications.

Available in open/closed single position and multi-position models with fine or coarse teeth adjustment, they provide one hand control from totally open through gradual occlusion, to completely closed.

The clamps are precision molded in a variety of materials to maximize effectiveness to suit your sterilization needs.

Assorted colors are available. Please visit our website for additional information.

Tubing Clamp Products

	- J I-			
	Part No.	Description	Tubing (Max O.D.)	Materials
a.	340TS series	micro clamp	0.16 inch (4.1 mm)	polypropylene, acetal
b.	340TCS series	small	0.25 inch (6.3 mm)	acetal, ABS polyester
c.	340TCSP series	small	0.25 inch (6.3 mm)	polypropylene
d.	340TCSxx series	micro-bore	0.11 inch (2.8 mm)	acetal, ABS
e.	340TCOP2 series	medium, 1-position	0.50 inch (12.7 mm)	polypropylene, polyester
f.	340TCP2 series	medium, 6-position	0.45 inch (11.4 mm)	polypropylene, polyester
g.	340TC series	medium, 12-position	0.45 inch (11.4 mm)	polypropylene, polyester, acetal
h.	340TCL series	large, 12-position	0.75 inch (19 mm)	polyester



Hand Pumps and Fittings

Molded from materials not made with natural rubber latex, our hand pumps are designed for fast response and comfort.

Our pumps are available with a wide variety of end fittings and check valves.

Unlike others, our pumps are designed for user comfort and are found on a wide variety of infusion cuffs, blood pressure cuffs, air bladders, air cushions, and air sampling devices.

Hand Pumps and Fittings

	Part No.	Description	Materials
a.	V15500 series	hand pump	black PVC
b.	V15600 series	80 cc hand pump	black or dark blue DEHP-free PVC
c.	V15700 series	50 cc hand pump	dark blue PVC clear, dark blue or green urethane
d.	V15900 series	50 cc hand pump	dark blue PVC
e.	V15910BP series	bleed valve	polypropylene
f.	V15940LPGC	bleed valve	polypropylene
g.	V15610 series	bleed valve	polypropylene
h.	646AP	stepped hand pump nozzle	PVC
i.	646APSC	ML hand pump nozzle	PVC

Images not to scale.

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Tube End Drain Valves and Closures

The 320TET drain valve is designed as a controlled method for fluid and air release.

Closures 650 and 1020 are designed for disposable medical bags. The 1020 features automatic reverse flow checking with a flapper and a large dumping capacity.







320TET

650 series

1020 series

Flanges

Typically used to connect tubing to drainage, collection sets and inflatable cushions and mattresses.



2700 Halkey-Roberts Place North St. Petersburg, FL 33716-4103 USA

+1 727.471.4200

sales@halkeyroberts.com www.halkeyroberts.com

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