

# P09021: VAD Test Loop BOM

Date: 5/18/2009

Part Number	Use	QTY	Unit	Price	Notes	Supplier
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## Tubing

0006.137	Tygon 1/2" ID tubing (S-50-HL Medical Grade) AAX00037	50	ft	178.00	1/2" ID, 11/16" OD, 3/32" Wall	Ryan Herco Flow Solutions
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## Quick Connects

HFCD17839M	Bicompatible Valved Quick Connections for tubing (male, Polysulfone)	1	pcs	15.51	0.5	Component Supply
HFCD22839M	Bicompatible Valved Quick Connections for tubing (female, PS)	1	pcs	10.99	0.5	Component Supply

## Fittings/Connectors

YO-8 HDPE	Y connector	1	pcs	FREE	Charge for shipping	Eldon James
C12-8 HDPE	Reducer 3/4" barb to 1/2" barb plastic (HDPE) Out of PVS	1	pcs	FREE	Charge for shipping	Eldon James
EW-06259-00	1/2" ID Bulkhead tankfittings (for water bath pass-thru)	2	2 pkg	35.00		Cole-Parmer

## Tank - Compliance & Blood Reservoir

EW-06055-20	Nalgene HDPE 4L Bottle with 89mm cap	1	pcs	25.00		Cole-Parmer
EW-06022-95	Nalgene Square PP 4L Bottle with 89mm cap	1	pcs	32.00		Cole-Parmer

## Water Bath - Tank & Components

36895K123	Thru-wall fitting (heating element attachment)	1	pcs	16.05	PVC, 1" pipe size	McMaster-Carr
3656K168	Heating element for blood (thread mountable)	1	pcs	262.65	6.5" length, 120 VAC, 1,000 Watts	McMaster-Carr
3163K22	Submersible Pump (Mix water bath)	1	pcs	46.50	Epoxy-coated PET	McMaster-Carr
8993T45	12 Qt. (11.4 L) Clear Polycarbonate container w/ graduations	1	pcs	31.15	L=11 15/16 in, W=10.5 in, H=7 3/4 in	McMaster-Carr
8993T49	Lid for 8993T46	1	pcs	6.07		McMaster-Carr

## Tubing Clamps

16700019	Stepless ear clamps (7mm band, 14.8-18mm dia.)	25	pcs	FREE	Donation	Oetiker
16700042	Stepless ear clamps (7mm band, 29.9-33.1mm dia.)	12	pcs	FREE	Donation	Oetiker
14100082	Stepless ear clamp tool	1	pcs	FREE	Donation	Oetiker

## Arterial Compliance Tank

MAR115M	Pressure Cuff	1	pcs	23.00		Online Medical Supply
5372K112	1/4" to 1/4"NPT threaded tank fitting	1	10 pkg	4.32		McMaster-Carr
53055K154	Sanitary White PVDF Sngl-Barbed Tube Fitting Wye for 3/16" Tube ID	1	pcs	2.77		McMaster-Carr

## Sensors & DAQ

DP15-34-N-1-S-4-A	Validyne Differential pressure transducer	1	pcs	460.00		Validyne
CD15-A-1-A-1	Carrier Demodulator	1	pcs	450.00		Validyne
11264-5	Cable - 5 ft	1	pcs	72.00		Validyne
Emtec Digiflow EXT1	Ultrasonic flow sensor	2	pcs	FREE	LVAD research team	Emteck
TMQSS-062V-6	Thermocouple - 6 inches	1	pcs	26.00		Omega
TMQSS-062V-12	Thermocouple - 12 inches	1	pcs	26.80		Omega
EXPP-T-20-TWSH-UL-25	Type "T" Thermocouple Wire	1	25 ft	18.00		Omega
USB-2416	Measurement & Computing USB DAQ	1	pcs	989.10		Omega
5121K351	Polypro Barbed Tube Fitting Adapter for 1/16" Tube ID X 1/8" NPT	1	10 pkg	3.55		McMaster-Carr

## Resistance

5330K23	Resistance - Manual clamp (backup)	1	pcs	6.97	Max OD = 3/4"	McMaster-Carr
TSMCA42-010-24-100-LW6	Automated - linear actuator & stepper motor combination	1	unit	83.80	5V DC, 0.7mA	Anaheim Automation
MBC25081TB	Controller	1	pcs	90.00	12-24V DC, 0.5-2.5A	Anaheim Automation
95475A244	Threaded rod - attach stepper motor/actuator (.144 +/- 0.005)	1	10 pkg	3.38	6" size 6-32 (.138")	McMaster-Carr
91090A100	Washers - Zinc-plated	1	100 pkg	2.28	0.141" D, .026-0.36 thck	McMaster-Carr
90480A007	Nuts (Zinc-plated)	1	100 pkg	1.30	6-32 R, 5/16" W, 7/64" H	McMaster-Carr
14601 PS	Power Supply	1	unit	89.00		Marlin Jones

## Blood Extraction

EW-07940-06	B-D Disposable Luer-Lock 5mL Syringe	1	100 pkg	23.00		Cole-parmer
LF-1NP	1/16" Female Luer Syringe Connector	4	pcs	FREE	Charge for shipping	Eldon James
89875K523	Precision Miniature SS Welded & Drawn Tubing 316 SS	1	pcs	9.66	16 GA, .065" OD, .047" ID, .009" Wall, 1'L	McMaster-Carr

## Cart

WB498529	Plastic Flat Top Shelf Utility Cart - 5 Inch Rubber Casters 40x26x33	1	pcs	119		Global Industrial
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## Miscellaneous Items

76475A31	Teflon Tape	1	roll	4.49		McMaster-Carr
3234T141	1" SS (Type 420) Bar Stock (Reducer for LVAD)	1	feet	31.86		McMaster-Carr
756847000184	6 Ft. Grounded Electrical Cord	1	pcs	5.98		Home Depot
26613117782	Tube Cutters	1	pcs	12.98		Home Depot
8624K16	1" HDPE barstock	1	ft	2.68		McMaster-Carr
8525T41	1/16" Thick, 12" X 12", Silicone Rubber Sheet Gasket	1	12x12	15.36		McMaster-Carr
4464K581	Type 304 SS Thrd Pipe Fitting 1/8" Pipe Size, Locknut, 150 PSI	1	pcs	4.47		McMaster-Carr
9396K425	Silicone O-Ring AS568A Dash Number 906	1	50 pkg	5.52		McMaster-Carr
98017A204	18-8 Stainless Steel AN 960 Flat Washer	1	100 pkg	6.91	7/16" L Sz, .750" OD, .028"-.036" Thk	McMaster-Carr
98017A199	18-8 Stainless Steel AN 960 Flat Washer	1	100 pkg	4.68	3/8" L Sz, .625" OD, .028"-.036" Thk	McMaster-Carr
95412A636	18-8 Stainless Steel Fully Threaded Stud 3/8"-16 Thread, 3" Length	1	5 pkg	5.10		McMaster-Carr
9396K424	Silicone O-Ring AS568A Dash Number 905	1	50 pkg	5.21		McMaster-Carr
90257A063	Type 316 SS Machine Screw Hex Nut	1	10 pkg	7.40	3/8"-16 Thread Size, 5/8" Width, 1/4" Height	McMaster-Carr
6840A19	Plastic Container (Blood transport)	1	pcs	17.28		McMaster-Carr
5624K12	High Pressure Tygon Tubing - 3/8" ID, 5/8" OD (PVS Vac Pump)	5	ft	24.10		McMaster-Carr
5624K12	Adjustable cable holder, adhesive (tubing to cart)	1	10 pkg	5.65		McMaster-Carr

Shipping

233.77

**Total**

**3556.29**