
	LFETS BOM	PID Ref #	Description	Part #	Qty	Manufacturer / Distributor	Specifications Link	Notes
Pressure Panel	Fitting	1	Union Tee, 1/4 in. Tube OD - Tube Fitting	B-400-3	6	Swagelok	ok.com/en/catalog/Product/	
Pressure Panel	Fitting	2	Female Tube Adapter, 1/4 in. Tube OD x 1/4 in. Female NPT - Tube Fitting	B-4-TA-7-4	1	Swagelok	k.com/en/catalog/Product/D	
Test Stand	Fitting	2	Female Tube Adapter, 1/2 in. Tube OD x 1/4 in. Female NPT - Tube Fitting	B-8-TA-7-4	5	Swagelok	k.com/en/catalog/Product/D	
Pressure Panel	Fitting	3	Male Tube Adapter, 1/4 in. Tube OD x 1/2 in. Male NPT - Tube Fitting	B-4-TA-1-8	1	Swagelok	k.com/en/catalog/Product/D	
Test Stand	Misc	4	Pressure Transducer	G17M0215F23000	2			
Pressure Panel	Misc	4	Pressure Transducer	G17M0215F23000	1			
Test Stand	Valve	5	Ball Valve 1/2 NPT Female	4024T730	2	McMaster-Carr	www.mcmaster.com/#4024t73	
Pressure Panel	Fitting	6	Male Tube Adapter, 1/4 in. Tube OD x 1/4 in. Male NPT - Tube Fitting	B-4-TA-1-4	5	Swagelok	k.com/en/catalog/Product/D	
Pressure Panel	Misc	7	Pressure Regulator	KCYJRA412A20000	2			
Test Stand	Fitting	8	Hex Nipple, 1/4 in. Male NPT - Pipe Fitting	B-4-HN	3	Swagelok	lok.com/en/catalog/Product/	
Pressure Panel	Fitting	8	Hex Nipple, 1/4 in. Male NPT - Pipe Fitting	B-4-HN	1	Swagelok	lok.com/en/catalog/Product/	
Pressure Panel	Valve	9	Solenoids	8262H019VDC12	3			
Test Stand	Valve	10	Poppet Check Valve, Fixed Pressure, 1/4 in. FNPT, 1 psig (0.07 bar)	B-4C4-1	2	Swagelok	ok.com/en/catalog/Product/	
Test Stand	Fitting	12	Union Elbow, 1/4 in. Tube OD - Tube Fitting	B-400-9	4	Swagelok	ok.com/en/catalog/Product/	
Pressure Panel	Fitting	12	Union Elbow, 1/4 in. Tube OD - Tube Fitting	B-400-9	1	Swagelok	ok.com/en/catalog/Product/	
Test Stand	Fitting	14	Union Cross, 1/2 in. Tube OD - Tube Fitting	B-810-4	4	Swagelok	ok.com/en/catalog/Product/	
Test Stand	Valve	15	High Pressure Relief Valve - 1/2 inch	HPRV-500-(pressure)	2		//www.generant.com/hprv.s	
Test Stand	Fitting	16	Through-Wall Adapter, 1/2 NPT x 1-1/8" -14 UNF	50785K275	14	McMaster-Carr	w.mcmaster.com/#50785k27	
Test Stand	Fitting	17	Union Elbow, 1/2 in. Tube OD - Tube Fitting	B-810-9	11	Swagelok	ok.com/en/catalog/Product/	
Test Stand	Fitting	18	Union Tee, 1/2 in. Tube OD - Tube Fitting	B-810-3	3	Swagelok	ok.com/en/catalog/Product/	
Test Stand	Fitting	19	Male Tube Adapter, 1/2 in. Tube OD x 1/2 in. Male NPT - Tube Fitting	B-8-TA-1-8	2	Swagelok	k.com/en/catalog/Product/D	
Test Stand	Fitting	20	Male Connector, 1/2 in. Tube OD x 3/4 in. Male ISO Tapered Thread - Tube Fitting	B-810-1-12	2	Swagelok	com/en/catalog/Product/De	
Test Stand	Misc	21	LOX Tank	8HD4G	1			
Test Stand	Fitting	22	Male Connector, 1/2 in. Tube OD x 1/2 in. Male NPT - Tube Fitting	B-810-1-8	21	Swagelok	ok.com/en/catalog/Product/D	
Test Stand	Valve	23	Cryo Ball Valve	C4466PMSE	1			
Test Stand	Fitting	24	Male Elbow, 1/2 in. Tube OD x 1/2 in. Male NPT - Tube Fitting	B-810-2-8	7	Swagelok	ok.com/en/catalog/Product/D	
Test Stand	Fitting	25	Through-Wall Adapter, 1/4 NPT Female, 3/4"-16 UNF Male	50785K273	5	McMaster-Carr	w.mcmaster.com/#50785k27	
Pressure Panel	Fitting	25	Through-Wall Adapter, 1/4 NPT Female, 3/4"-16 UNF Male	50785K273	5	McMaster-Carr	w.mcmaster.com/#50785k27	
Test Stand	Fitting	26	Male Elbow, 1/4 in. Male NPT - Pipe Fitting	B-4-ME	6	Swagelok	lok.com/en/catalog/Product/	
Test Stand	Fitting	27	Street Elbow, 1/4 in. Female NPT x 1/4 in. Male NPT - Pipe Fitting	B-4-SE	2	Swagelok	lok.com/en/catalog/Product/	
Test Stand	Misc	28	Ethanol Tank	C020	1			
Test Stand	Fitting	29	Female Elbow, 1/2 in. Tube OD x 1/2 in. Female NPT - Tube Fitting	B-810-8-8	2	Swagelok	ok.com/en/catalog/Product/D	
Test Stand	Fitting	30	Hex Reducing Nipple, 3/4 in. Male NPT x 1/2 in. Male NPT - Pipe Fitting	B-12-HRN-8	2	Swagelok	k.com/en/catalog/Product/De	
Test Stand	Fitting	31	Male Run Tee, 1/2 in. Tube OD x 1/2 in. Male NPT x 1/2 in. Tube OD - Tube Fitting	B-810-3-8TMT	1	Swagelok	com/en/catalog/Product/De	
Test Stand	Fitting	32	Male Connector, 1/2 in. Tube OD x 1/4 in. Male NPT - Tube Fitting	B-810-1-4	1	Swagelok	ok.com/en/catalog/Product/D	
Test Stand	Fitting	33	Female Branch Tee, 1/2 in. Tube OD x 1/2 in. Tube OD x 1/2 in. Female NPT - Tube Fitting	B-810-3-8TTF	2	Swagelok	com/en/catalog/Product/De	
Test Stand	Fitting	34	Street Tee, 1/2 in. Female NPT x 1/2 in. Male NPT x 1/2 in. Female NPT - Pipe Fitting	B-8-ST	1	Swagelok	lok.com/en/catalog/Product/	
Test Stand	Fitting	35	Branch Tee, 1/2 in. Female NPT x 1/2 in. Female NPT x 1/2 in. Male NPT - Pipe Fitting	B-8-BT	1	Swagelok	lok.com/en/catalog/Product/	
Test Stand	Fitting	36	Plug for 1/2 in. Swagelok Tube Fitting	B-810-P	2	Swagelok	ok.com/en/catalog/Product/	
Test Stand	Fitting	37	Bored-Through Male Connector, 1/4 in. Tube OD x 1/4 in. Male NPT - Tube Fitting	B-400-1-4	2	Swagelok	s.com/en/catalog/Product/De	
Pressure Panel	Fitting	37	Male Connector, 1/4 in. Tube OD x 1/4 in. Male NPT - Tube Fitting	B-400-1-4	6	Swagelok	ok.com/en/catalog/Product/D	
Test Stand	Fitting	38	Male Connector, 1/4 in. Tube OD x 1/2 in. Male NPT - Tube Fitting	B-400-1-8	2	Swagelok	ok.com/en/catalog/Product/D	
Pressure Panel	Fitting	38	Male Connector, 1/4 in. Tube OD x 1/2 in. Male NPT - Tube Fitting	B-400-1-8	1	Swagelok	ok.com/en/catalog/Product/D	
Test Stand	Fitting	39	45° Male Elbow, 1/2 in. Tube OD x 1/2 in. Male NPT - Tube Fitting	B-810-5-8	1	Swagelok	NA	
Test Stand	Valve	40	Compact High-Pressure Backflow-Prevention Valve for Water, Brass Body, 1/4 NPTF Male	46105K690	1	McMaster-Carr	www.mcmaster.com/#46105k6	
Test Stand	Valve	41	Manual Ball Valve	SS-83KS8	1			
Test Stand	Valve	42	12 V DC SOLENOID VALVE	E29LR62	1	Magnetrol	www.magnetrol.com/lr_valve	
Pressure Panel	Valve	42		SV39036TE004	1			
Pressure Panel	Valve	43		46105K690	1			

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Pressure Panel	Fitting	44	Female Branch Tee, 1/4 in. Tube OD x 1/4 in. Tube OD x 1/4 in. Female NPT - Tube Fitting	B-400-3-4TTF	2	Swagelok	com/en/catalog/Product/De	Currently in Model, not sure if we already have or what the status. (connected to pressure dial)
Test Stand	Misc	45	Micron Inline Filter	9835K863	2			
Pressure Panel	Misc	46	Quick disconnect	SSQF4B4PM	5			
Pressure Panel	Misc	47	Quick disconnect	SSQF4S4PM	5			
Pressure Panel	Valve	48	Solifold for hydrolic cryo line	Solifold for hydrolic cryo line	1			
Igniter	GOX Solenoid	49	At least 500 psi capable		1			
Igniter	Fuel Solenoid	50	At least 500 psi capable		1			
Igniter	Igniter	51	Igniter subassembly		1			