



LUKE ALEXANDER

A PREMIER FIRE SUPPRESSION CORPORATION



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LUKE 227

CLEAN AGENT FIRE SUPPRESSION



LUKE 227 CLEAN AGENT

LUKE 227 is a trademark of LUKE's HFC-227ea, Heptafluoropropane. LUKE 227 is an effective fire extinguishing agent that can be used on many types of fires ranging from sensitive electrical equipment to industrial applications using flammable liquids. LUKE 227 is ideal for applications where clean-up of the extinguishing medium presents a problem, where an electrically non-conductive medium is needed and where people compatibility is an overriding factor. When environmental impact becomes a consideration, LUKE 227 is particularly useful. It has Zero ozone-depleting potential, low global warming potential and short atmospheric lifetime. These characteristics make it suitable not only for new installations using LUKE's total flooding system, but also for Halon 1301 replacement. LUKE 227 is an odorless, colorless liquefied compressed gas. It is stored as a liquid and dispensed into the hazard as a colorless, electrically non-conductive vapor that is clear and does not obscure physical vision. It leaves no residue in occupied spaces at system design concentration. LUKE 227 extinguishes a fire by a combination of chemical and physical mechanisms. LUKE 227 does not displace and therefore is safe for use in occupied spaces without fear of oxygen deprivation.

LUKE 227 fully complies with the standards of ASTM D6064 and NFPA 2001 and has achieved a minimum purity of 99.95 percent and less than 10 ppm of moisture. It has less than 1 ppm acidity as HF. The non-volatile residue is less than 0.05g/100ml.

PHYSICAL & CHEMICAL PROPERTIES

Chemical Name	Heptafluoropropane (CF ₃ CHFCF ₃)
General	Colorless, Odorless Liquefied Gas
Molecular Weight	170.03
Boiling Point	-16.4°C / 2.4.8°F
Freezing Point	-131°C / -203.8°F
Vapor Pressure @ 21°C/70°F	58.8 psia
Critical Temperature	101.7°C / 215.1°F
Critical Pressure (psia)	422.3 psia
Vapor Density (AIR=1)	6.04
Water Reactive	No
Specific Gravity (H ₂ O=1)	1.46
Percent Volatile (by volume)	n/a
Evaporation Rate (Butyl acetate=1)	n/a
Viscosity @ 20°C/68°F	n/a
Ozone Depletion Potential	260mg/L
Estimated Atmospheric Lifetime (years)	31-42

APPROVALS





LUKE 227 CLEAN AGENT EXTINGUISHING SYSTEM UNITS (500 PSI SYSTEM)

GENERAL INFORMATION

Luke Fire Suppression System uses HFC-227ea extinguishing agent that is stored in extinguishing cylinders until system activation. All Clean Agent cylinders are manufactured and tested in accordance with DOT/TPED and GOST design requirements. Luke cylinders are equipped with stainless steel back pressure type valve.

The quantity of agent required for each enclosure can be calculated through Luke's Flow Calculation Software Version LK 4.0, which contains a sophisticated calculation routine for predicting the two-phase as well as two component flow of agent and nitrogen through the distribution piping network in quasi-steady state from the initiation of the discharge to final gas blow down. The cylinder is then super pressurized with dry nitrogen to 500 psi at 70°F to provide an extinguishment in 10 seconds or less.

Cylinder Models Color Chart:



Mirror Surface



Gold



Vibrant Red



AVAILABILITY

Luke Alexander manufactures a wide range of engineered cylinders available in 20lb, 35lb, 70lb, 100lb, 150lb, 250lb, 375lb, 560lb, 650lb, 800lb, 1000lb, and 1200lb.

Temperature Range: 32°F (0°C) to 120°F (50°C)

System Operating Pressure: 500 psi at 70°F (35.2 kgf/cm² at 21.1°C)

FEATURES

- Valve is appropriate for high **discharge** rates and allows the extinguishant discharge possible **within 10 seconds**.
- Includes a pressure gauge for indication of the filling pressure.
- Includes a burst disc to protect from excessive pressure.
- Uses a piston actuator as a pressure operated switch in the cylinder discharge of multiple cylinders installation
- Uses Electric Solenoid (24 VDC 15 Watts & 12 VDC 15 Watts) or a Latching Solenoid with supervision function to automatically start and operate the clean agent discharge based on the operating specification requirements.
- Used Low Pressure Supervisory Switch to monitor the internal pressure of the cylinder
- Cylinder fill density is dependent on the area of protection size.
- A cylinder nameplate label is attached to the extinguishing agent container. Contains maintenance and filling information.

LUKE STAINLESS STEEL CYLINDERS ARE AVAILABLE IN THE FOLLOWING CAPACITIES:

CYLINDER ASSEMBLY PART NO.	CYLINDER CAPACITY		MIN FILL AT 30 LB/FT ³ 560 KG/CM ³		MAX FILL AT 65.74 LB/FT ³ 1121.3KG/CM ³		CYLINDER UL RECOGNIZED COMPONENT (EX28164)	VALVE UL RECOGNIZED COMPONENT (EX28083)		VALVE SIZE		CYLINDER DIMENSION					
	FT ³	L	LB	KG	LB	KG		PART NUMBER	COMPONENT MARKING	IN	MM	A		B		C	
												+0.70 IN	+0.018 IN	+0.54 IN	+0.014 IN	+1 IN	+1 IN
LK 7900020-AH-SS	0.379	10.7	9	4.1	19	8.6	7101, C003	LK 7920010-SS	20001-SS	1"	25mm	10.750"	0.273m	13.505"	0.343m	18.290"	0.465m
LK 7900035-AH-SS	0.621	17.6	16	7.3	33	15.1	7102, C006	LK 7920010-SS	20001-SS	1"	25mm	10.750"	0.273m	18.555"	0.471m	23.337"	0.593m
LK 7900070-AH-SS	1.077	30.5	31	14.1	67	30.4	7103, C010	LK 7920010-SS	20001-SS	1"	25mm	10.750"	0.273m	28.045"	0.712m	32.830"	0.834m
LK 7900100-BH-SS	1.448	41.0	44	20.0	94	206.8	7121, C015	LK 7920010-SS	20001-SS	1"	25mm	12.795"	0.325m	26.595"	0.676m	31.830"	0.808m
LK 7900100-AH-SS	1.448	41.0	44	20.0	94	206.8	7122, C014	LK 7920015-SS	20002-SS	1 1/2"	40mm	12.795"	0.325m	27.020"	0.686m	32.660"	0.830m
LK 7900150-AH-SS	2.138	60.5	66	30.0	143	314.6	7123, C021	LK 7920015-SS	20002-SS	1 1/2"	40mm	12.795"	0.325m	37.130"	0.943m	42.770"	1.086m
LK 7900250-AH-SS	3.564	101.0	109	49.5	238	521.4	7161, C035	LK 7920015-SS	20002-SS	1 1/2"	40mm	16.000"	0.406m	40.130"	1.019m	45.770"	1.163m
LK 7900375-AH-SS	5.356	151.7	163	74.1	356	783.2	7162, C053	LK 7920025-SS	20003-SS	2 1/2"	65mm	16.000"	0.406m	57.250"	1.454m	65.190"	1.656m
LK 7900560-AH-SS	8.197	232.1	241	109.5	527	1159.4	7201, C081	LK 7920025-SS	20003-SS	2 1/2"	65mm	20.000"	0.508m	55.250"	1.403m	63.460"	1.612m
LK 7900650-AH-SS	9.492	268.8	285	129.5	624	1372.8	7202, C094	LK 7920025-SS	20003-SS	2 1/2"	65mm	20.000"	0.508m	63.100"	1.602m	71.040"	1.804m
LK 7900650-BH	9.492	268.8	285	129.5	624	1372.8	7203, C095	LK 7920030-SS	20004-SS	3"	80mm	20.000"	0.508m	63.810"	1.621m	72.570"	1.843m
LK 7900800-AH	12.015	340.2	360	163.6	788	1733.6	7302, C12B	LK 7920040-SS	20005-SS	4"	100mm	30.000"	0.762m	49.086"	1.247m	58.791"	1.493m
LK 7900800-BH	12.015	340.2	360	163.6	788	1733.6	7301, C12A	LK 7920030-SS	20004-SS	3"	80mm	30.000"	0.762m	46.678"	1.186m	55.438"	1.408m
LK 7901000-AH	14.830	420.0	445	202.3	975	2142.8	7304, C14B	LK 7920040-SS	20005-SS	4"	100mm	30.000"	0.762m	56.448"	1.434m	66.153"	1.680m
LK 7901000-BH	14.830	420.0	445	202.3	975	2142.8	7303, C14A	LK 7920030-SS	20004-SS	3"	80mm	30.000"	0.762m	54.040"	1.373m	62.800"	1.341m
LK 7901200-AH	17.665	500.0	519	235.9	1137	2501.4	7305, C176	LK 7920040-SS	20005-SS	4"	100mm	30.000"	0.762m	63.818"	1.621m	73.523"	1.867m

APPROVALS





LUKE 227 CLEAN AGENT EXTINGUISHING SYSTEM UNITS (360 PSI SYSTEM)

WILL STAINLESS STEEL CYLINDERS BURN IN THE EVENT OF UNEXPECTED FIRE?

The answer is NO. Steels do not burn but only start to melt at about 1400°C. But with Luke 227 Fire Suppression System, a fire would only last for less than 10 seconds which will prevent the fire to reaching the melting point. Stainless steel has an inherent oxidation resistance and continued strength at elevated temperatures. Our system design is not only reliable to protect your assets, but is also fast enough to protect its own system.

HYGIENIC AND COST-EFFICIENT

When taking on this dual role of performance and aesthetics, our stainless steel cylinders are reliable products of choice due to its ease of maintenance and refined appearance. Cylinders made out of stainless steel are eco-friendly and are recyclable. Its production engages the use of natural resources and energy.

Cylinder Models Color Chart:



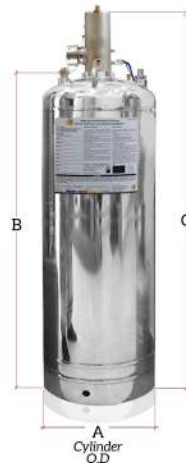
Mirror Surface



Gold



Vibrant Red



AVAILABILITY



Luke Alexander manufactures a wide range of engineered cylinders available in 20lb, 35lb, 70lb, 100lb, 150lb, 250lb, 375lb, 560lb, 650lb, 800lb, 1000lb, and 1200lb.

Temperature Range: 32°F (0°C) to 130°F (54.4°C)

System Operating Pressure: 360 psi at 70°F (35.2 kgf / cm² at 21.1°C)

LUKE STAINLESS STEEL CYLINDERS ARE AVAILABLE IN THE FOLLOWING CAPACITIES:

CYLINDER ASSEMBLY PART NO.	CYLINDER CAPACITY		MIN FILL AT 30 LB/FT ³ 560 KG/CM ³		MAX FILL AT 70 LB/FT ³ 1121.3KG/CM ³		CYLINDER UL RECOGNIZED COMPONENT (EX28154)	VALVE UL RECOGNIZED COMPONENT (EX28083)		VALVE SIZE		CYLINDER DIMENSION							
												A				B			
	FT ³	L	LB	KG	LB	KG		PART NUMBER	COMPONENT MARKING	IN	MM	±0.70 IN	±0.018 IN	±0.54 IN	±0.014 IN	±1% IN	±1% IN	±1% IN	±1% IN
LK 7900020-A-SS	0.379	10.7	9	4.1	20	8.6	7101; C003	LK 7920010-SS	20001-SS	1"	25mm	10.750"	0.273m	13.505"	0.343m	18.290"	0.465m		
LK 7900035-A-SS	0.621	17.6	16	7.3	36	72.6	7102; C006	LK 7920010-SS	20001-SS	1"	25mm	10.750"	0.273m	18.555"	0.471m	23.337"	0.593m		
LK 7900070-A-SS	1.077	30.5	31	14.1	71	147.4	7103; C010	LK 7920010-SS	20001-SS	1"	25mm	10.750"	0.273m	28.045"	0.712m	32.830"	0.834m		
LK 7900100-B-SS	1.448	41.0	44	20.0	100	206.8	7121; C015	LK 7920010-SS	20001-SS	1"	25mm	12.795"	0.325m	26.595"	0.676m	31.830"	0.808m		
LK 7900100-A-SS	1.448	41.0	44	20.0	100	206.8	7122; C014	LK 7920015-SS	20002-SS	1 1/2"	40mm	12.795"	0.325m	27.020"	0.686m	32.660"	0.830m		
LK 7900150-A-SS	2.138	60.5	66	30.0	152	314.6	7123; C021	LK 7920015-SS	20002-SS	1 1/2"	40mm	12.795"	0.325m	37.130"	0.943m	42.770"	1.086m		
LK 7900250-A-SS	3.564	101.0	109	49.5	253	521.4	7161; C035	LK 7920015-SS	20002-SS	1 1/2"	40mm	16.000"	0.406m	40.130"	1.019m	45.770"	1.163m		
LK 7900375-A-SS	5.356	151.7	163	74.1	379	783.2	7162; C053	LK 7920025-SS	20003-SS	2 1/2"	65mm	16.000"	0.406m	57.250"	1.454m	65.190"	1.656m		
LK 7900560-A-SS	8.197	232.1	241	109.5	561	1159.4	7201; C081	LK 7920025-SS	20003-SS	2 1/2"	65mm	20.000"	0.508m	55.250"	1.403m	63.460"	1.612m		
LK 7900650-A-SS	9.492	268.8	285	129.5	665	1372.8	7202; C094	LK 7920025-SS	20003-SS	2 1/2"	65mm	20.000"	0.508m	63.100"	1.602m	71.040"	1.804m		
LK 7900650-B	9.492	268.8	285	129.5	665	1372.8	7203; C095	LK 7920030-SS	20004-SS	3"	80mm	20.000"	0.508m	63.810"	1.621m	72.570"	1.843m		
LK 7900800-A	12.015	340.2	360	163.6	840	1733.6	7302; C12B	LK 7920040-SS	20005-SS	4"	100mm	30.000"	0.762m	49.086"	1.247m	58.791"	1.493m		
LK 7900800-B	12.015	340.2	360	163.6	840	1733.6	7301; C12A	LK 7920030-SS	20004-SS	3"	80mm	30.000"	0.762m	46.678"	1.186m	55.438"	1.408m		
LK 7901000-A	14.830	420.0	445	202.3	1038	2142.8	7304; C14B	LK 7920040-SS	20005-SS	4"	100mm	30.000"	0.762m	56.448"	1.434m	66.153"	1.680m		
LK 7901000-B	14.830	420.0	445	202.3	1038	2142.8	7303; C14A	LK 7920030-SS	20004-SS	3"	80mm	30.000"	0.762m	54.040"	1.373m	62.800"	1.541m		
LK 7901200-A	17.665	500.0	519	235.9	1211	2501.4	7305; C176	LK 7920040-SS	20005-SS	4"	100mm	30.000"	0.762m	63.818"	1.621m	73.523"	1.867m		

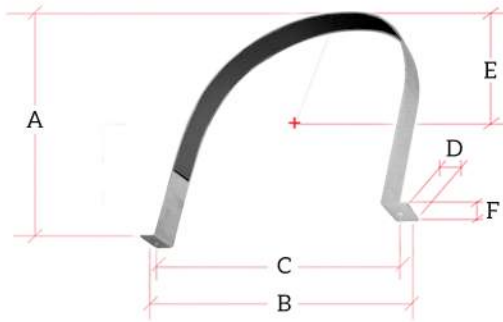
APPROVALS



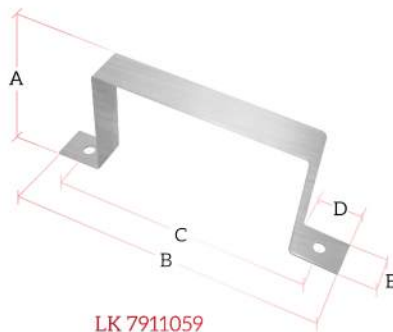


LUKE 227 ENGINEERED CYLINDER BRACKETS

Luke cylinder bracket is manufactured from stainless steel band formed to the radius of the cylinder with flanges for bolting to the continuous slot metal framing channel of 12-gauge steel with corrosion resistant paint or galvanized. The cylinder bracket must be secured to a surface that the bracket will withstand a load up to 5 times of the cylinder weight. This precaution is to have the bracket safely supports the weight of the cylinder and the reaction force of the HFC-227ea Clean Agent when discharge.



Bracket Part #	Cylinder Size	Cylinder O.D	Straps #	A	B	C	D	E	F
LK 7911107-W	20lb	10.000"	1	11.000"	14.000"	12.600"	1.500"	5.600"	2.000"
LK 7911107-W	35lb	10.000"	1	11.000"	14.000"	12.600"	1.500"	5.600"	2.000"
LK 7911107-W	70lb	10.000"	1	11.000"	14.000"	12.600"	1.500"	5.600"	2.000"
LK 7911128-W	100lb	12.750"	1	13.000"	16.050"	14.650"	1.650"	6.480"	2.000"
LK 7911128-W	150lb	12.750"	1	13.000"	16.050"	14.650"	1.650"	6.480"	2.000"
LK 7911160-W	250lb	16.000"	1	16.250"	19.200"	17.700"	1.500"	8.200"	2.000"
LK 7911160-W	375lb	16.000"	2	16.250"	19.200"	17.700"	1.500"	8.200"	2.000"
LK 7911200-W	560lb	20.000"	2	20.250"	23.200"	21.700"	1.500"	10.100"	2.000"
LK 7911200-W	650lb	20.000"	2	20.250"	23.200"	21.700"	1.500"	10.100"	2.000"
LK 7911300-W	800lb	30.000"	2	30.225"	35.200"	33.200"	1.000"	15.225"	2.000"
LK 7911300-W	1000lb	30.000"	2	30.225"	35.200"	33.200"	1.000"	15.225"	2.000"
LK 7911300-W	1200lb	30.000"	2	30.225"	35.200"	33.200"	1.000"	15.225"	2.000"



Bracket Part #	Cylinder Size	Cylinder O.D	A	B	C	D	E
LK 7911059-F	800lb	30.000"	5.000"	11.850"	10.350"	1.775"	2.000"
LK 7911059-F	1000lb	30.000"	5.000"	11.850"	10.350"	1.775"	2.000"
LK 7911059-F	1200lb	30.000"	5.000"	11.850"	10.350"	1.775"	2.000"

APPROVAL





VALVES ASSEMBLY

Stainless Steel Valves



1/2" Stainless Steel Valve
316L Stainless Steel
P/N: LK 7900005-SS



1" Stainless Steel Valve
316L Stainless Steel
P/N: LK 7920010-SS



1 1/2" Stainless Steel Valve
316L Stainless Steel
P/N: LK 7920015-SS



2 1/2" Stainless Steel Valve
316L Stainless Steel
P/N: LK 7920025-SS



3" Stainless Steel Valve
316L Stainless Steel
P/N: LK 7920030-SS



4" Stainless Steel Valve
316L Stainless Steel
P/N: LK 7920040-SS

APPROVAL



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LUKE ALEXANDER

A PREMIER FIRE SUPPRESSION CORPORATION



LUKE 5112

CLEAN AGENT FIRE SUPPRESSION



LUKE 5112 CLEAN AGENT

LUKE 5112 is a trademark of LUKE ALEXANDER's FK-5-1-12, Dodecafluoro-2-methylpentan-3-one. FK-5-1-12 is another widely used extinguishing clean agent. It is environmentally safe and best used in fire hazard areas containing A, B, & C classes of fire. It has been approved by US EPA and ISO for its safe characteristic and fire extinguishing effectiveness.

LUKE 5112 is ideal for use in total flooding applications, localized flooding systems, directional spray type applications and can be used in portable extinguishers for specialized applications.

LUKE 5112 is an acceptable alternative clean agent for Halon 1301 replacement and it is guaranteed that meets the minimum NFPA 2001 Requirement as follows.

PHYSICAL & CHEMICAL PROPERTIES

IUPAC Name	1,1,1,2,2,4,5,5,5-Nonafluoro-4-(trifluoromethyl)-3-pentanone
ASHRAE Designation	FK-5-1-12
Synonym	Dodecafluoro-2methylpentan-3-one
CAS Registry Number	756-13-8
Chemical Formula	$\text{CF}_3\text{CF}_2\text{C}(\text{O})\text{CF}(\text{CF}_3)_2$
Molecular Weight	316.04
Freezing Point	-162.4°F (-108°C)
Boiling Point at 760 mmHg	120.2°F (49°C)
Critical Temperature	335.6°F (168.66°C)
Critical Density	39.91 lbm/ft ³ (639.1 kg/m ³)
Critical Pressure	270.44 psi (1,865 kPa)
Critical Volume	0.0251 ft ³ /lbm (494.5 cc/mole)
Viscosity, Liquid at 77°F (25°C)	1.27 lb/ft-hr (0.524 cP)
Solubility in Water at 70°F (21.1°C)	<0.001% by weight
Purity	99.0% (minimum)
Non-Volatile Residue (g/100ml)	0.05
Ozone Depletion Potential (ODP)	0
Global Warming Potential (GWP)	≤1
Atmospheric Lifetime (ATL)	0.014 years
US EPA SNAP	Yes

APPROVALS





LUKE 5112 CLEAN AGENT EXTINGUISHING SYSTEM UNITS (500 PSI SYSTEM)

EQUIPMENT RELIABILITY & INCREASED LIFETIME

Stainless steel cylinders can operate in corrosive and high temperature environments. Our stainless steel cylinders are capable of handling superior quality and sensitive substances in many years with its leakage prevention technology. Their ability to provide long-term performance with a minimum of downtime and cost associated with maintenance can be truly beneficial in protecting your assets in long term perspective.

GENERAL INFORMATION

Luke Fire Suppression System uses FK-5-1-12 extinguishing agent that is stored in extinguishing cylinders until system activation.

Our Clean Agent stainless steel cylinders are manufactured and tested in accordance with DOT/TPED and GOST design requirements. Luke cylinders are equipped with stainless steel back pressure type valve.

Cylinder Models Color Chart:



Mirror Surface



Gold



Vibrant Red



MATERIAL EFFICIENCY

Stainless steel is recyclable and has one of the highest recycling rates of any material. An estimation of at least 80% of stainless steels are recycled at the end of their life. In addition, the recycling system for stainless steel is very efficient.

For the future in a fire suppression industry, sustainability is an important factor. Our stainless steel cylinders have a combination of properties which should be taking account in the decision making process at the design state:

- Mechanical properties
- Corrosion resistance properties
- Fire resistance
- Recyclability
- Long life
- Low maintenance costs
- Neutrality and Hygienic
- Aesthetics

NOTES

Temperature Range: 32°F (0°C) to 130°F (54.4°C)

System Operating Pressure: 500 psi (34.5 Bar) at 70°F (21.1°C)

All cylinder labels and cylinders in mirror surface or cylinders painted with red or gold are UL Approved.

LUKE STAINLESS STEEL CYLINDERS ARE AVAILABLE IN THE FOLLOWING CAPACITIES:

CYLINDER ASSEMBLY PART NO.	CYLINDER CAPACITY		MIN FILL AT 35 LB/FT ³		MAX FILL AT 75 LB/FT ³		CYLINDER UL RECOGNIZED COMPONENT (EX28164)	VALVE UL RECOGNIZED COMPONENT (EX28063)		VALVE SIZE		CYLINDER DIMENSION					
	FT ³	L	LB	KG	LB	KG		PART NUMBER	COMPONENT MARKING	IN	MM	A	B	C	±1%	±1%	±1%
LK 7800020-A-SS	0.289	8.2	11	5.0	21	9.5	7101, C003	LK 7920010-SS	20001-SS	1"	25mm	10.750"	0.273m	13.505"	0.343m	18.290"	0.465m
LK 7800035-A-SS	0.512	14.5	18	8.2	38	17.2	7102, C006	LK 7920010-SS	20001-SS	1"	25mm	10.750"	0.273m	18.555"	0.471m	23.337"	0.593m
LK 7800070-A-SS	1.020	28.9	36	16.3	76	34.5	7103, C010	LK 7920010-SS	20001-SS	1"	25mm	10.750"	0.273m	28.045"	0.712m	32.830"	0.834m
LK 7800100-B-SS	1.440	40.8	51	23.1	108	49.0	7121, C015	LK 7920010-SS	20001-SS	1"	25mm	12.795"	0.325m	26.595"	0.676m	31.830"	0.808m
LK 7800100-A-SS	1.440	40.8	51	23.1	108	49.0	7122, C014	LK 7920015-SS	20002-SS	1 1/2"	40mm	12.795"	0.325m	27.020"	0.686m	32.660"	0.830m
LK 7800150-A-SS	2.180	61.7	77	34.9	163	73.9	7123, C021	LK 7920015-SS	20002-SS	1 1/2"	40mm	12.795"	0.325m	37.130"	0.943m	42.770"	1.086m
LK 7800250-A-SS	3.620	102.5	127	57.6	271	122.9	7161, C035	LK 7920015-SS	20002-SS	1 1/2"	40mm	16.000"	0.406m	40.130"	1.019m	45.770"	1.163m
LK 7800375-A-SS	5.420	153.4	190	86.2	406	184.1	7162, C053	LK 7920025-SS	20003-SS	2 1/2"	65mm	16.000"	0.406m	57.250"	1.454m	65.190"	1.656m
LK 7800560-A-SS	8.020	227.0	281	127.4	601	272.6	7201, C081	LK 7920025-SS	20003-SS	2 1/2"	65mm	20.000"	0.508m	55.250"	1.403m	63.460"	1.612m
LK 7800650-A-SS	9.500	268.9	333	151.0	712	322.9	7202, C094	LK 7920025-SS	20003-SS	2 1/2"	65mm	20.000"	0.508m	63.100"	1.602m	71.040"	1.804m
LK 7800650-B	9.500	268.9	333	151.0	712	322.9	7203, C095	LK 7920030-SS	20004-SS	3"	80mm	20.000"	0.508m	63.810"	1.621m	72.570"	1.843m
LK 7800800-A-SS	12.000	339.7	420	190.5	900	408.2	7302, C12B	LK 7920040-SS	20005-SS	4"	100mm	30.000"	0.762m	49.086"	1.247m	58.791"	1.493m
LK 7800800-B	12.000	339.7	420	190.5	900	408.2	7301, C12A	LK 7920030-SS	20004-SS	3"	80mm	30.000"	0.762m	46.678"	1.186m	55.438"	1.408m
LK 7801000-A	14.830	419.8	520	235.8	1112	504.3	7304, C14B	LK 7920040-SS	20005-SS	4"	100mm	30.000"	0.762m	56.448"	1.434m	66.153"	1.680m
LK 7801000-B	14.830	419.8	520	235.8	1112	504.3	7303, C14A	LK 7920030-SS	20004-SS	3"	80mm	30.000"	0.762m	54.040"	1.373m	62.800"	1.611m
LK 7801200-A	17.300	489.8	606	274.8	1297	588.2	7305, C176	LK 7920040-SS	20005-SS	4"	100mm	30.000"	0.762m	63.818"	1.621m	73.523"	1.867m

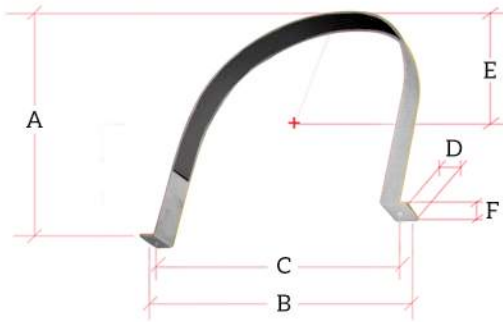
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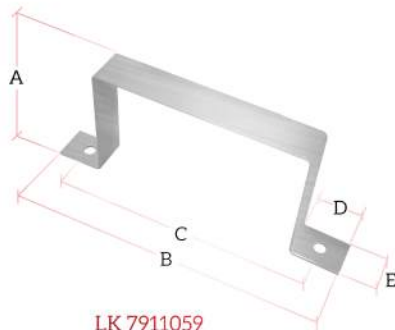


LUKE 5112 ENGINEERED CYLINDER BRACKETS

Luke cylinder bracket is manufactured from stainless steel band formed to the radius of the cylinder with flanges for bolting to the continuous slot metal framing channel of 12-gauge steel with corrosion resistant paint. The cylinder bracket must be secured to a surface that the bracket will withstand a load up to 5 times of the cylinder weight. This precaution is to have the bracket safely supports the weight of the cylinder and the reaction force of the FK-5-1-12 Clean Agent when discharge.



Bracket Part #	Cylinder Size	Cylinder O.D	Straps #	A	B	C	D	E	F
LK 7911107-W	20lb	10.000"	1	11.000"	14.000"	12.600"	1.500"	5.600"	2.000"
LK 7911107-W	35lb	10.000"	1	11.000"	14.000"	12.600"	1.500"	5.600"	2.000"
LK 7911107-W	70lb	10.000"	1	11.000"	14.000"	12.600"	1.500"	5.600"	2.000"
LK 7911128-W	100lb	12.750"	1	13.000"	16.050"	14.650"	1.650"	6.480"	2.000"
LK 7911128-W	150lb	12.750"	1	13.000"	16.050"	14.650"	1.650"	6.480"	2.000"
LK 7911160-W	250lb	16.000"	1	16.250"	19.200"	17.700"	1.500"	8.200"	2.000"
LK 7911160-W	375lb	16.000"	2	16.250"	19.200"	17.700"	1.500"	8.200"	2.000"
LK 7911200-W	560lb	20.000"	2	20.250"	23.200"	21.700"	1.500"	10.100"	2.000"
LK 7911200-W	650lb	20.000"	2	20.250"	23.200"	21.700"	1.500"	10.100"	2.000"
LK 7911300-W	800lb	30.000"	2	30.225"	35.200"	33.200"	1.000"	15.225"	2.000"
LK 7911300-W	1000lb	30.000"	2	30.225"	35.200"	33.200"	1.000"	15.225"	2.000"
LK 7911300-W	1200lb	30.000"	2	30.225"	35.200"	33.200"	1.000"	15.225"	2.000"



LK 7911059

Bracket Part #	Cylinder Size	Cylinder O.D	A	B	C	D	E
LK 7911059-F	800lb	30.000"	5.000"	11.850"	10.350"	1.775"	2.000"
LK 7911059-F	1000lb	30.000"	5.000"	11.850"	10.350"	1.775"	2.000"
LK 7911059-F	1200lb	30.000"	5.000"	11.850"	10.350"	1.775"	2.000"





VALVES ASSEMBLY

Stainless Steel Valves



1/2" Stainless Steel Valve
316L Stainless Steel
P/N: LK 7900005-SS



1" Stainless Steel Valve
316L Stainless Steel
P/N: LK 7920010-SS



1 1/2" Stainless Steel Valve
316L Stainless Steel
P/N: LK 7920015-SS



2 1/2" Stainless Steel Valve
316L Stainless Steel
P/N: LK 7920025-SS



3" Stainless Steel Valve
316L Stainless Steel
P/N: LK 7920030-SS



4" Stainless Steel Valve
316L Stainless Steel
P/N: LK 7920040-SS

APPROVAL



www.lukealexandrea.com

LUKE ALEXANDER

A PREMIER FIRE SUPPRESSION CORPORATION



SYSTEM
EQUIPMENTS



STAINLESS STEEL LATCHING SOLENOID

Latching Solenoid (LK 7933001-A) is assembled on the top plug adapter of the cylinder valve in order to open a Schrader valve for the activation of agent distribution. It can be activated by the use of electrical current or manual activation. When it is in used with manual activation, a local lever driven (LK 7941103) push rod shall be utilized in order to depress a Schrader Valve. Its ability to maintain position without power makes latching solenoids ideal for applications requiring low power consumption with a fast response used with the Luke Clean Agent Fire Suppression System.



FEATURES

- High latching forces
- Fast response
- Options
 - Manual release button cap
 - Easy to manual reset
- UL component-recognized to UL864
- Tested in accordance with UL508
- Equipped with safety pull-pin to prevent accidental manual discharge of Clean Agent
- Self-venting
- Stainless Max coating construction
- Stainless steel operation lock-pin

APPROVAL



SPECIFICATIONS

- Activation force: 110 (N)
- Holding force: >100 (N)
- Diagnostic Current: 30 (mA)
- Power requirement: 24 VDC $\pm 10\%$
- Current: 0.5A @ 24 VDC
- Electrical connection: EN 175301-803 (ISO 4400)
 - 5 pin Switch / Pin 3 (+); Pin 2 (-)
- Operating temperature range: -4 to 131°F
 - (-20 to 55°C)
- Weight: 2.66 lbs (1.3 kg)
- Dimensions:
 - Body Diameter: 1.77 in (45 mm)
 - Length: 5.10 in (129.5 mm)



LATCHING SOLENOID & LOCAL MANUAL CONTROL

Latching Solenoid with Supervision

Latching Solenoid is assembled on the top plug adapter of the cylinder valve in order to open a Schrader valve for the activation of agent distribution. It can be activated by the use of electrical current or manual activation without the electric current. When it is in used with manual activation, a local control manual head features of a local lever driven push rod shall be utilized in order to depress a Schrader Valve. Its ability to maintain position without power makes latching solenoids ideal for applications requiring low power consumption with a fast response used with the Luke Clean Agent Fire Suppression System.



LK 7933001-A

FEATURES

- High Latching Forces
- Fast response
- Options: Manual Release button cap
Reset tool
- UL approval-recognized to UL864
- Tested in accordance with UL508

APPROVAL



SPECIFICATIONS

- Manual actuation force: 12-40 lb_f (5.44-18kg_f) max
- Operating force: 20.25-14.6 lb_f (90-65 N) min
- Power requirement: 24 VDC
- Current: 0.5A @ 24 VDC
- Electrical connection: DIN 43 650-A/ISO 440 3pin
- Operating temperature range: -4 to 131°F
(-20 to 55°C)
- Weight: 1.9 lbs (.86 kg)
- Dimensions:
 - Body Diameter: 1.61 in (41 mm)
 - Length: 4.17 or 5.9 in (106 or 150 mm)
with manual actuation cap

Latching Solenoid Local Manual Control

- Used for manual actuation of cylinder
- Equipped with safety pull-pin to prevent accidental manual discharge of Clean Agent
- Self-venting
- Solid brass construction
- Stainless steel operation lock-pin

The Latching Solenoid Local Manual Control features a local lever driven push rod that depresses a Schrader check valve thru the latching solenoid when fitted onto the top of the solenoid, thereby venting the pressure from the top of the piston in the cylinder valve, allowing the piston to slide upward and commence cylinder discharge. The Local Manual Control can be mounted directly to a top plug adapter, which is the top piece of the cylinder valve.



LK 7941103



PRESSURE SWITCHES

Pressure Operated Switch (N.C./N.O) SPDT (Manual Reset)

Pressure Operated Switch (Manual Reset) is a system of being discharge and provides electrical for alarm and auxiliary control function. The switch may be designed to make contact either on pressure rise or on pressure fall. After the system actuation, the reset button **MUST** be depressed in order to reset the device. The pressure operated switch can be connected to any points of the discharge piping between the cylinders and nozzle.



LK 7965002

SPECIFICATIONS

- Electrical Ratings: 15 Amps – 125/250 VAC
- Switch: SPDT snap action
- Contacts: Normally Open (N.O)
Normally Closed (N.C)

APPROVAL



Pressure Operated Switch (N.C./N.O) SPDT (Automatic Reset)

Pressure Operated Switch (Automatic Reset) is a system of being discharge and provides electrical for control function. This switch is best used with an Agent Release Control panel to perform various auxiliary functions. It reset automatically after system actuation. The pressure operated switch can be connected to any points of the discharge piping between the cylinders and nozzle



LK 7965002-A

SPECIFICATIONS

- Materials: Port-stainless. Diaphragm-stainless steel.
Seals-Buna-N or Viton. Housing -aluminum
- Temperature: -65oF to 280oF
- Electrical Rating: 5 Amps. Resistive 110 V/250 VAC, 3
Amps. Inductive 28 VDC.
SPDT snap-action
- Electrical Connection: 8" Pigtails
- Pressure Connection: 1/8" NPT-Male
- Dielectric Strength: 1000 V RMS
- Reset: Automatic



PRESSURE SUPERVISORY SWITCH

Pressure Supervisory Switch is operated by supervised fluid pressure applied within the cylinder. This switch offers a choice of pressure monitoring alarms. When the set point pressure is detected, the switch works to open or close a circuit. This allows for enhanced alarm and control which in turn improves the dependability and safety of the workplace.



FEATURES

- Built Tough and field proven
- Excellent corrosion resistance
- Simple installation
- High Cycle rate of tolerance

SPECIFICATIONS

- Auto Reset Pressure Switch
- Proof Pressure: 600 psig
- Burst Pressure: 5000 psig
- Electrical Ratings: 120/240 VAC - 375 VA
24 VAC - 125 VA
- Cycle Life: 100,000 Minimum
- Ambient Temperature: -30 to +70°C
- Fluid Temperature: -54 to +135°C

Part Number	Configuration	Open	Close	Connection Thread
LK 7931240-NPT	Pressure Switch N/O	110 +/- 7 psig	240 +/- 7 psig	1/8" NPT
LK 7930240-NPT	Pressure Switch N/C	240 +/- 7 psig	110 +/- 7 psig	1/8" NPT
LK 7931240-M	Pressure Switch N/O	110 +/- 7 psig	240 +/- 7 psig	M10
LK 7930240-M	Pressure Switch N/C	240 +/- 7 psig	110 +/- 7 psig	M10
LK 7931360-NPT	Pressure Switch N/O	291 +/- 10 psig	360 +/- 10 psig	1/8" NPT
LK 7930360-NPT	Pressure Switch N/C	360 +/- 10 psig	291 +/- 10 psig	1/8" NPT
LK 7931360-M	Pressure Switch N/O	291 +/- 10 psig	360 +/- 10 psig	M10
LK 7930360-M	Pressure Switch N/C	360 +/- 15 psig	291 +/- 10 psig	M10
LK 7931500-NPT	Pressure Switch N/O	400 +/- 15 psig	400 +/- 15 psig	1/8" NPT
LK 7930500-NPT	Pressure Switch N/C	500 +/- 20 psig	500 +/- 20 psig	1/8" NPT
LK 7931500-M	Pressure Switch N/O	400 +/- 15 psig	400 +/- 15 psig	M10
LK 7930500-M	Pressure Switch N/C	500 +/- 20 psig	500 +/- 20 psig	M10

APPROVAL





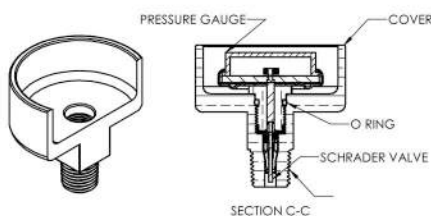
PRESSURE GAUGE GUARD & PRESSURE SUPERVISORY SWITCH GUARD

Pressure Gauge and Pressure Supervisory Switch Guards protect pressure gauges and pressure supervisory switches from a potential physical damage during system installation. The Guards incorporate a no loss connection, which allows for the pressure gauge or the pressure supervisory switch to be replaced easily and safely without discharging the fire extinguishing agent

PRESSURE GAUGE GUARD



LK 7924201 Pressure Gauge Guard



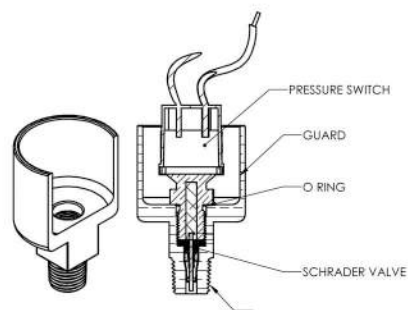
FEATURES

- Improving Operational Performance
- Easy to install
- Compact Design

PRESSURE SUPERVISORY SWITCH GUARD



LK 7924202 Pressure Switch Guard





LIQUID LEVEL INDICATOR

The Liquid Level Indicator is used to measure the level of agent (in liquid phase) in order to determine the amount of agent in the cylinders. It is designed to have a ball magnet to float with the liquid level along the unit stem. The level of the agent is determined by simply removing the protective cap and pulling out a calibrated tape until magnetic interlock with the float is felt. Once the level of the liquid is obtained, the weight of the agent can be obtained by using the Liquid Level Indicator Graph in the Design, and Operation Manual.

FEATURES

- Reduced maintenance time - weight in an agent storage container can be determined in a fraction of the time it would take to remove and weigh them.
- Continuous fire protection - use of the liquid level indicator does not require taking out the cylinder from the system, thus providing uninterrupted fire protection.
- Field installation capability - the indicator can easily be installed in the field using a single wrench as long as the container is empty and is equipped with a mounting boss.
- Compact - when not in use, the unit requires no more space than that required by the container.
- Flexibility - the flexible tape design allows the unit to be used in tight spaces that would otherwise hinder the use of a rigid type indicator "stick".

Availability - units are available for all Luke containers from sizes of 150 lb. thru 1200 lb.

Part Number	Description
LK 7912001	Liquid Level Indicator for 150 LB & 250 LB cylinders
LK 7912002	Liquid Level Indicator for 375 LB & 560 LB cylinders
LK 7912003	Liquid Level Indicator for 650 LB cylinders
LK 7912004	Liquid Level Indicator for 800 LB cylinders
LK 7912005	Liquid Level Indicator for 1000 LB cylinders
LK 7912006	Liquid Level Indicator for 1200 LB cylinders

APPROVAL





MANUAL ACTUATOR

Local Manual Controls

Local Manual Control mounts directly to a top plug of the cylinder valve. It is a manual process to activate the discharge of fire extinguishing agent to suppress fires.

Two types of Local Manual Control (LMC) are available which are Lever Type LMC and Plunger Type LMC. While both uses a local driven push rod to vent the pressure from the top of the piston in the cylinder valve, allowing the piston to slide upward and commence cylinder discharge, the Plunger Type LMC offers a more competitive cost than the Lever Type LMC due to its size.

Features:

- Manual Activation of Agent Discharge
- Self-venting
- Solid Brass Construction
- Equipped with safety Local Lever driven push rod
- Stainless steel operation lock-pin



LK 7941101



LK 7941102

APPROVAL



PNEUMATIC ACTUATOR

Piston Actuator Control Head-Slave

Piston Actuator Control is assembled on the top of the cylinder valve and uses pneumatic pressure to operate the Piston Actuator to drive the piston to slide upward and commence cylinder to discharge. The required pneumatic pressure is obtained from the master cylinder that is either mechanically and/or electrically actuated. In other words, the Piston Actuator is suitable to use where manifold system is required. A 1/4" copper tubing or 1/4" metal flexible hose is usually used as connections between the master cylinder and the cylinder valve.

Features:

- High quality brass construction
- Self-venting
- Mounts directly on top of cylinder valves

SPECIFICATIONS

Thread for Piston Actuator Control Head - Slave	Available in 1", 1 1/2", 2 1/2", 3", 4" sizes
Thread for Pilot Connection	1/4" Copper Tubing or 1/4" Metal Flex Hose
Minimum Pilot Pressure	3.45 Bar (50 PSI)
Maximum Pilot Pressure	34.5 Bar (500 PSI)
Material	Available in Brass or Stainless Steel



LK 7941201

Pressure supplied by Port M of Master Cylinder Valve

Note: 1/4" Metal Flex Hose are available as follows:

P/N	LK 7953025-12	12" Length
P/N	LK 7953025-20	20" Length
P/N	LK 7953025-24	24" Length
P/N	LK 7953025-36	36" Length

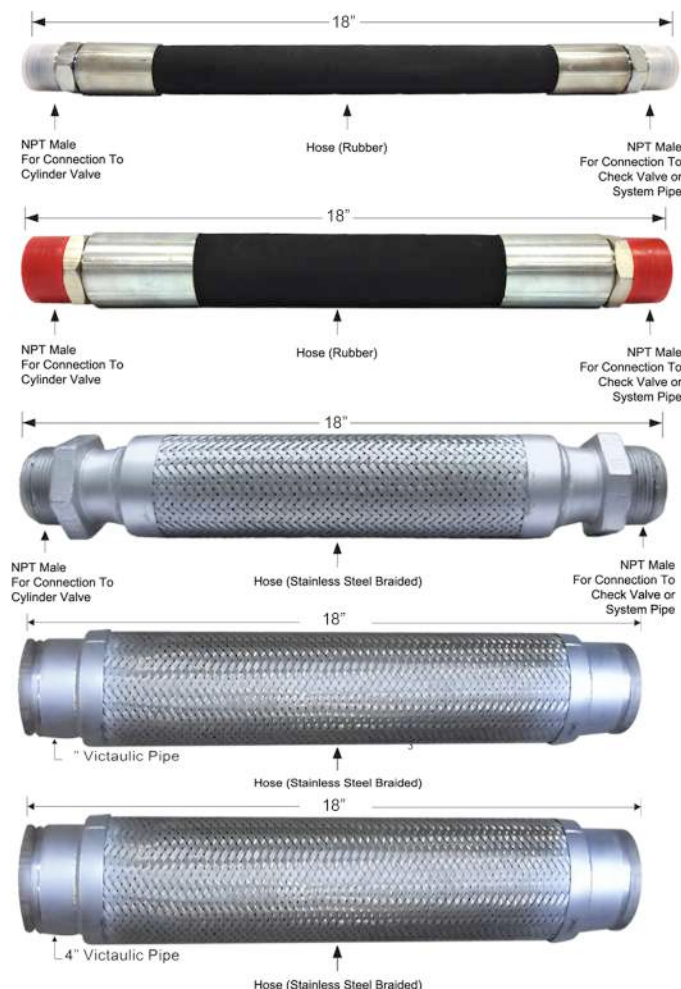


FLEXIBLE HOSES

Flexible Hoses are designed to connect and carry a wide range of agent from one cylinder to another storage container. The hose are flexible and excellent in strength, and pressure resistance that can be connect in a multiple cylinders arrangement.

Flexible Hose is available in multiple different sizes. The available 1 inch and 1-1/2 inch flexible hoses are made of high pressure hydraulic rubber while 3 & 4 inch flexible hoses are constructed of stainless steel braided. For the 800 lb, 1000 lb and 1200 lb cylinders, the flex hose is 4" in diameter (P/N LK 7953400) and 18" in length. With the exception of 4 inch flexible hose that uses the Victaulic fittings, all flexible hoses have NPT male thread of both ends.

Part Number	Size	Description	Length	Material
LK 7953100	1"	Flexible Hose	18"	Rubber
LK 7953150	1 1/2"	Flexible Hose	18"	Rubber
LK 7953250	2 1/2"	Flexible Hose	18"	Stainless Steel Braided
LK 7953300	3"	Flexible Hose	18"	Stainless Steel Braided
LK 7953300-A	3"x 6"	Flexible Hose and Check Valve Assembly	26"	Stainless Steel Braided / Brass
LK 7953400	4"	Flexible Hose	18"	Stainless Steel Braided
LK 7953400-A	4"x6"	Flexible Hose and Check Valve Assembly	26"	Stainless Steel Braided / Brass



APPROVAL





SHUTTLE VALVES

The T brass Shuttle Valve is used to connect two cylinders to a common discharge pipe and nozzles. The purpose of having two connections is that after the first cylinder is discharged, the second cylinder can be manually transferred to restore fire-fighting readiness. Shuttle valve is designed to isolate the first cylinder that is being discharge through an opening on one end and it pushes towards the opposite end. This prevents the agent from traveling through that opening, but allows it to flow through the middle opening attached into the same manifold. In this way two different sources can provide pressure without the threat of back flow from one source to another. All threads are available with 1" or 1-1/2" NPT.



LK 7954100
1" Shuttle Valve

LK 7954150
1 1/2" Shuttle Valve

CHECK VALVES

The Check Valves are made of brass materials and are commonly used in manifold system (i.e. when there are two or more cylinder agents having one common discharge piping configuration). It is used to prevent a back flow of the fire extinguishing agent into other cylinders attached to the manifold.



LK 7956100
1" Check Valve



LK 7956150
1 1/2" Check Valve



LK 7956250
2 1/2" Check Valve



LK 7956300
3" Check Valve Assembly



LK 7956400
4" Check Valve Assembly

APPROVAL





6 INCHES SELECTOR VALVE

Luke's 6 Inch Selector Valves are used in a hydraulic system to direct the flow of agent to the fire suppression pipe lines. A selector valve directs the flow agent under system pressure to the desired working port of an actuating unit. The valve is capable of switching from one circuit to another variety of agent and pressures. The selector valve is designed with ISO direct mounting pad, it is convenient for mounting Pneumatic Actuator (LK 603402) directly on the valve's ISO pad.

The 6 inch selector valve offers flange connection in ASME/DIN/JIS standard. This is 6" size (Dn150), and Fire Safe Ap1607- 4th Edition Certification can be provided as option.



LK 7958600-T

APPROVAL

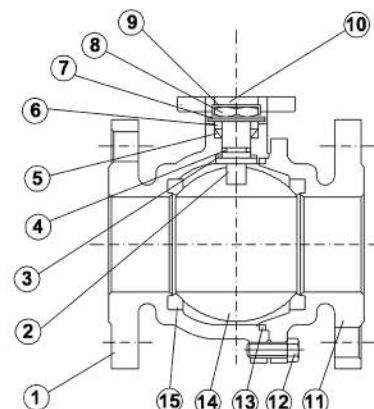


SPECIFICATIONS

- Body & end caps quality investment casting
- Available in stainless steel or carbon steel
- With ISO 5211 direct mounting pad
- Adjustable stem packing
- Blow-out proof stem design
- 100% air tested
- Quality Guaranteed
- Working Pressure: Class 300
- Temperature Range: -20° F to 450° F

SELECTOR VALVE MATERIAL COMPOSITION

Item	Part Name	Materials (Class 150)
1	Body	CF8M/WCB
2	Stem	SS 316/SS 304
3	Thrust Washer	RPTFE
4	O-Ring	VITON
5	Stem Packing	PTFE
6	Gland	SS 304
7	Disk Washer	SS 301
8	Stem Nut	SS 304
9	Nut Stop	SS 304
10	Washer	SS 304
11	Flanged End	SS 316/ SS 304
12	Bolt	SS 304
13	Gasket	PTFE
14	Ball	SS 316 / SS 304
15	Ball Seat	PTFE / RPTFE





SELECTOR VALVE

Luke Selector Valve is designed to operate with Pneumatic Actuator (LK 7957101) and has ISO direct mounting pad which is designed for all of the Scheduled 40 or 80 fire suppression system pipings.

Luke's bare stem type selector valve is well designed for mounting actuator directly with very low torque value.

Luke offer Pneumatic Actuator (LK 7957101) and Limit Switch Box (LK 7957201) to be mounted on all sizes of Selector Valves.



LK 7958600-T

Part Number	Size	A	B	C
LK 7958025-T	1/4"	37	11	56.5
LK 7958038-T	3/8"	37	12.5	56.5
LK 7958050-T	1/2"	37	15	59.0
LK 7958075-T	3/4"	40	20	72.0
LK 7958100-T	1"	48	25	79.5
LK 7958125-T	1 1/4"	53.5	32	96.0
LK 7958150-T	1 1/2"	63.5	38	104.5
LK 7958200-T	2"	72	50	123.5
LK 7958250-T	2 1/2"	92	63.5	160.0
LK 7958300-T	3"	102	78	182.2
LK 7958400-T	4"	132	100	212.5

APPROVAL

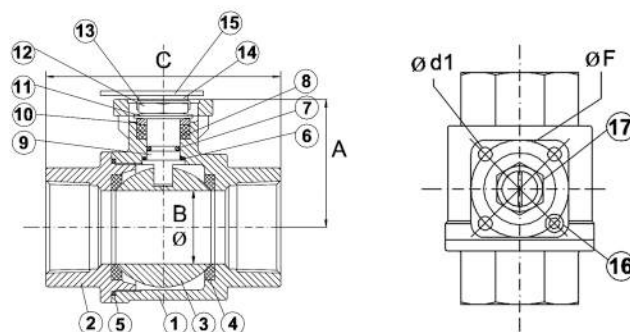


SPECIFICATIONS

- Body & end caps quality investment casting
- With ISO 5211 direct mounting pad
- Adjustable stem packing
- Available in stainless steel or carbon steel
- Blow-out proof stem design
- 100% air tested under water at 80 psi to 100 psi
- Working Pressure: 1000 psi / 800 psi
- Temperature Range: -20°F to 450°F
- End Type: Threaded

SELECTOR VALVE MATERIAL COMPOSITION

Item	Part Name	Materials
1	Body	CF8M
2	End Cap	CF8M
3	Ball	SS 316
4	Seat	PTFE
5	Gasket	RPTFE
6	Thrust Washer	VITON
7	O-Ring	PTFE
8	Stem Packing	SS 316
9	Stem	SS 304
10	Gland	SS 301
11	Disk Washer	SS 304
12	Stem Nut	SS 304
13	Nut Stop	SS 304
14	Space Washer	SS 304
15	Plater	SS 304
16	Stop Pin	SS 304
17	Set Bolt	SS 304





PNEUMATIC ACTUATOR

(LK 7957101)

Luke Pneumatic Actuator is a compact rack and pinion actuator that is available in double acting and spring return. The body is a hard-anodized aluminium extrusion alloy. The pneumatic actuators are manufactured in a wide range of output torques to fit the characteristics of the selector valve applications, and the systems feature an ISO standard mounting design, assuring long-term industry acceptance.



SPECIFICATIONS

- Operating Pressure Range: 40 psig to 120 psig
- Maximum Allowable Working Pressure: 150 psig
- Pressure Regulator Device Range: 80 psig to 400 psig
- Operating Temperature: -40°F (-40°C) to +200°F (90°C)
- Double Acting: 10 Nm (88 in-lb) to 1,243 Nm (11,000 in-lb)
- Spring Return: 7.6 Nm (68 in-lb) to 484 Nm (4,290 in-lb)
- Direct connection: ISO 5211 standard and DIN 3337 stem standard

APPROVAL



LIMIT SWITCH BOX

(LK 7957201)

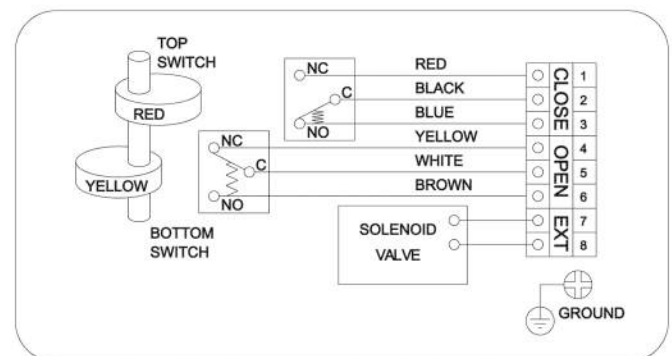
Luke offers a limit switch box that is designed using aluminium die-casting housing and power coated. It is equipped with bolt on visual position indicator spring, loaded cam, captive cover bolts, dual cable entries, and Namur standard stainless steel shaft and bracket.

The Limit Switch provides electrical contact points for use on Luke Selector Valve to indicate "Open" or "Closed" position.

SPECIFICATIONS

Enclosure Protection:	Weatherproof IP67 / NEMA 4 & 4X
Ingress Protection:	IP67
Coating:	Polyester powder coated, hard-anodized surface against corrosion
Ambient Temperature:	-4°F (-20°C) to +176°F (+80°C)
Cable Entry:	Dual cable entries (2 x 1/2" NPT)
Terminal Strip:	8 points (6 for switches, 2 for solenoid connections)
Position Monitoring Indicator:	Yellow - Open (0° to 90°) Red - Close
Switches:	2 SPDT Mechanical Switches
Mounting Bracket:	Standard NAMUR

Wiring Diagram





DISCHARGE NOZZLES

Discharge Nozzles is used to distribute the fire extinguishing agent in a uniform, pre-determined pattern and concentration. As per NFPA 2001 requirements, the discharge nozzles are designed to ensure a complete fire extinguishing agent within 10 seconds or less when installed within the design limitations as stated in the Design, Installation and Operation Manual.



FEATURES

- Available in sizes 1/2", 3/4", 1", 1 1/4", 1 1/2", and 2".
- Configurations: 180 and 360 degrees distribution patterns
- Made of aluminum with female pipe threads
- Available in Aluminum, Brass & Stainless steel materials

APPROVAL



SIDE WALL 180°

Typically to be installed adjacent to the center of the one wall of one enclosure. It's discharge path will be across the enclosure. At no time shall the area coverage be exceeded.

Part Number	Description
LK 7952050-2	1/2" (180°) Sidewall
LK 7952075-2	3/4" (180°) Sidewall
LK 7952100-2	1" (180°) Sidewall
LK 7952125-2	1 1/4" (180°) Sidewall
LK 7952150-2	1 1/2" (180°) Sidewall
LK 7952200-2	2" (180°) Sidewall

CENTRAL 360°

Typically to be installed at the center of the enclosure. It's discharge path will be across the enclosure. At no time shall the area coverage be exceeded.

Part Number	Description
LK 7952050-3	1/2" (360°) Central
LK 7952075-3	3/4" (360°) Central
LK 7952100-3	1" (360°) Central
LK 7952125-3	1 1/4" (360°) Central
LK 7952150-3	1 1/2" (360°) Central
LK 7952200-3	2" (360°) Central



DISCHARGE NOZZLES

Discharge Nozzles is used to distribute the fire extinguishing agent in a uniform, pre-determined pattern and concentration. As per NFPA 2001 requirements, the discharge nozzles are designed to ensure a complete fire extinguishing agent within 10 seconds or less when installed within the design limitations as stated in the Design, Installation and Operation Manual.



FEATURES

- Available in sizes 1/2", 3/4", 1", 1 1/4", 1 1/2", and 2".
- Configurations: 180 and 360 degrees distribution patterns
- Made of aluminum with female pipe threads
- Available in Aluminum, Brass & Stainless steel materials

APPROVAL



SIDE WALL 180°

Typically to be installed adjacent to the center of the one wall of one enclosure. It's discharge path will be across the enclosure. At no time shall the area coverage be exceeded.

Part Number	Description
LK 7852050-2	1/2" (180°) Sidewall
LK 7852075-2	3/4" (180°) Sidewall
LK 7852100-2	1" (180°) Sidewall
LK 7852125-2	1 1/4" (180°) Sidewall
LK 7852150-2	1 1/2" (180°) Sidewall
LK 7852200-2	2" (180°) Sidewall

CENTRAL 360°

Typically to be installed at the center of the enclosure. It's discharge path will be across the enclosure. At no time shall the area coverage be exceeded.

Part Number	Description
LK 7852050-3	1/2" (360°) Central
LK 7852075-3	3/4" (360°) Central
LK 7852100-3	1" (360°) Central
LK 7852125-3	1 1/4" (360°) Central
LK 7852150-3	1 1/2" (360°) Central
LK 7852200-3	2" (360°) Central



INSTRUCTIONAL SIGNS

Instructional Signs offer valuable knowledge and instructions in order to provide a system in which the functions of all devices are easy to understand. Luke's offer several different "standard" signs to comply with the requirements of NFPA and authority having jurisdiction. It is essential in all buildings to inform people on what is going on, it is a safety information sign. All signs are made of durable plastic and backed with strong adhesive for easy installation.

MANUAL HFC-227ea DISCHARGE STATION

MANUAL DISCHARGE STATION SIGN (LK 7975004)

The purpose of the Manual Discharge Station Sign is to identify the manual pull station as the place where the HFC-227ea can be manually discharged. It also minimizes the possibility of the manual pull station being mistaken for a fire alarm device. The sign has a dimension of 4" x 4" x 1/16" (100 x 100 x 1.5 mm) and is made of plastic with white lettering on a red background. The Manual Discharge Station Sign should be located in the proximity of the manual pull station for quick positive identification.

FLASHING LIGHT MEANS HFC-227ea HAS DISCHARGED

FLASHING LIGHT SIGN (LK 7975005)

The purpose of the Flashing Light Sign is to attract public notice/attention in the event of a HFC-227ea discharge. The sign has a dimension of 7" x 4 1/4" x 1/16" (178 x 108 x 1.5 mm) and is made of plastic with white lettering on a red background. This will alert personnel when HFC-227ea has been discharged and allow them to take appropriate actions.



YELLOW CAUTION SIGN (LK 7975006)

The purpose of the Caution Sign is to alert personnel that the room is protected by HFC-227ea and that all doors should be kept closed in the event of fire. The sign has a dimension of 14" x 10" x 1/16" (356 x 254 x 1.5 mm) and constructed of plastic with a yellow background. The Caution Sign should be conspicuously located in any rooms where HFC-227ea protection is being provided.

LUKE offers three additional standard CAUTION signs to comply with NFPA and authorities having jurisdiction to provide caution and direction to various system component devices. All signs are made of durable plastic, backed with strong adhesive for easy installation. Signs are also pre-drilled at each corner for screw fasteners if desired. Signs are typically installed on doors, near alarm devices, next to controls, etc. All signs have a dimension of 3 1/2" x 7 1/2" x 1/16" with white lettering on a red background.



CAUTION (When Alarm Sound ...) (LK 7975001)

The purpose of this caution sign is to alert personnel to evacuate the protected area. The sign should be conspicuously located near alarm devices.



CAUTION (Do Not Enter Room ...) (LK 7975002)

The purpose of this caution sign is to prevent personnel from entering a protected area. The sign should be conspicuously located outside the entrance door to the protected area.



CAUTION (Operation of Manual ...) (LK 7975003)

The purpose of this caution sign is to prevent personnel from entering a protected area. The sign should be conspicuously located outside the entrance door to the protected area.



INSTRUCTIONAL SIGNS

Instructional Signs offer valuable knowledge and instructions in order to provide a system in which the functions of all devices are easy to understand. Luke's offer several different "standard" signs to comply with the requirements of NFPA and authority having jurisdiction. It is essential in all buildings to inform people on what is going on, it is a safety information sign. All signs are made of durable plastic and backed with strong adhesive for easy installation.

MANUAL FK-5-1-12 DISCHARGE STATION

MANUAL DISCHARGE STATION SIGN (LK 7875004)

The purpose of the Manual Discharge Station Sign is to identify the manual pull station as the place where the FK-5-1-12 can be manually discharged. It also minimizes the possibility of the manual pull station being mistaken for a fire alarm device. The sign has a dimension of 4" x 4" x 1/16" (100 x 100 x 1.5 mm) and is made of plastic with white lettering on a red background. The Manual Discharge Station Sign should be located in the proximity of the manual pull station for quick positive identification.

FLASHING LIGHT MEANS FK-5-1-12 HAS DISCHARGED

FLASHING LIGHT SIGN (LK 7875005)

The purpose of the Flashing Light Sign is to attract public notice/attention in the event of a FK-5-1-12 discharge. The sign has a dimension of 7" x 4 1/4" x 1/16" (178 x 108 x 1.5 mm) and is made of plastic with white lettering on a red background. This will alert personnel when FK-5-1-12 has been discharged and allow them to take appropriate actions.



YELLOW CAUTION SIGN (LK 7875006)

The purpose of the Caution Sign is to alert personnel that the room is protected by FK-5-1-12 and that all doors should be kept closed in the event of fire. The sign has a dimension of 14" x 10" x 1/16" (356 x 254 x 1.5 mm) and constructed of plastic with a yellow background. The Caution Sign should be conspicuously located in any rooms where FK-5-1-12 protection is being provided.

LUKE offers three additional standard CAUTION signs to comply with NFPA and authorities having jurisdiction to provide caution and direction to various system component devices. All signs are made of durable plastic, backed with strong adhesive for easy installation. Signs are also pre-drilled at each corner for screw fasteners if desired. Signs are typically installed on doors, near alarm devices, next to controls, etc. All signs have a dimension of 3 1/2" x 7 1/2" x 1/16" with white lettering on a red background.



CAUTION (When Alarm Sound ...) (LK 7875001)

The purpose of this caution sign is to alert personnel to evacuate the protected area. The sign should be conspicuously located near alarm devices.



CAUTION (Do Not Enter Room ...) (LK 7875002)

The purpose of this caution sign is to prevent personnel from entering a protected area. The sign should be conspicuously located outside the entrance door to the protected area.



CAUTION (Operation of Manual ...) (LK 7875003)

The purpose of this caution sign is to prevent personnel from entering a protected area. The sign should be conspicuously located outside the entrance door to the protected area.

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DETECTION DEVICES



THERMAL DETECTOR SERIES 65A

A Thermal Detectors easy absorbs radiation and changes temperature. It is operate by using a matched pair of thermistors to sense heat. One thermistor is exposing to sense temperature and the other is sealed. When this occurs, a potential difference is formed between the other ends of metals. Since potentials differences are temperature-dependent, temperature values or changes in temperature resulting in an imbalance that can be determined by calibration.

Thermal Detectors Series 65A externally, the thermal detectors are distinguishable from the smoke detectors by having wide opening to the surroundings atmosphere to allow good movement of air around the external thermistor.



LK 7961007



FEATURES

- Alarm Indicator: Flashing Red LED
- Supply Voltage: 9 to 33 V
- Standby current: 55 mA at 24V, 50 mA at 9V
- Alarm current: 52mA at 24V, 17mA at 9V
- Ambient Temperature: 32 degree F to 100 degree F (0 degree C to 37.8 degree C)
- Wide opening voltage
- Dual solid-state thermistor sensors
- Easy plug-in of the head to base
- Restorable
- Sealed against back pressure
- Advance electronic technology

APPROVAL





PHOTOELECTRIC SMOKE DETECTORS SERIES 65A

Photoelectric Smoke Detectors use a light beam to detect the presence of smoke. Inside the smoke detector there is a light and a sensor, but they are positioned at 90° angles to one another. In the normal case, the light from the light source on the left shoots straight across and misses the sensor. When smoke enters the chamber, however, the smoke particles scatter the light and some amount of light hits the sensor. The sensor then sets off the alarm state and the indicator LED lights up in the smoke detector. Photoelectric detectors are better at sensing smoky fires, such as a smoldering mattress.



LK 7961006



Luke Series 65A Common Detector Base

FEATURES

- Photoelectric smoke and fixed temperature heat sensor
- Compliant to the EMC Directive 98/336/EEC and the Construction Products Directive 89/106/EEC
- Wide opening voltage
- Advanced technology
- Can be used on security systems
- Proven detection performance
- Sensor communicates sensitivity to control panel
- Optional locking tab to prevent unwanted removal
- Simple and accurate address setting without mechanical switches
- LED for 360° viewing
- Photoelectric smoke and fixed temperature heat sensor

SPECIFICATIONS

- Supply Voltage: 9 to 33 V
- Alarm current: 52mA at 24V, 17mA at 9V
- Standby Current: 45mA at 24V, 40mA at 9V
- Sensitivity Setting: Comply to UL 268
- Ambient Temperature: 32 degree F to 100°F (0 degree C to 37.8 degree C)
- Material: Fire proof plastic
- Color: White

APPROVAL





CONVENTIONAL DETECTOR BASES

LK6 SERIES AND LK4 SERIES DETECTOR BASES

LK6 and LK4 Series bases are specifically designed for conventional models:

- Photoelectric smoke detectors: LKR-24V, LKR-835, LKR-24H
- Photoelectric with heat smoke detector: LKR-835H
- Fixed temperature/rate-of-rise heat detector: LKD-135/190



LK6 & LK4 2 WIRE BASE

The LK6 base is a 6" base featuring a plastic tam-per-lock lug. Each base is equipped with a resistor. The LK4 base is a 4" version of the LK6 base.

Part Number	Model Number	Alarm Current	ID
LK 7966220-NS	LK6-220	93mA (136mA @ 33.0V MAX)	HB-3
LK 7964220-NS	LK4-220	93mA (136mA @ 33.0V MAX)	HB-3
LK 7966100-NS	LK6-100	150mA @ 33.0V MAX	HB-55
LK 7964100-NS	LK4-100	150mA @ 33.0V MAX	HB-55

LKC-220R & LKC-4R SERIES DETECTOR BASES

LKC-220R & LKC-4R Series bases are specifically designed for conventional models:

- Photoelectric smoke detectors: LKR-24V, LKR-835, LKR-24H, LKP-24H
- Photoelectric with heat smoke detector: LKR-835H
- Fixed temperature/rate-of-rise heat detector: LKD-135/190, LKE-135/190



LKC-220R RELAY BASE & LKC- 4R 4 WIRE BASE

LKC-L SERIES DETECTOR BASE

- Fixed temperature/rate-of-rise heat detector: LKE-135/190

The LKC-220R base is a 6" relay base with two sets of Form "C" relay contacts. The LKC-L series is a 6" latching led base featuring a current limiting resistor, latching annunciator output and a latching circuit so the alarm LED will remain lit until the control panel has been reset.

The LKC-4R is designed specifically for 24 volt 4 wire applications



LKC-220L LATCHING LED BASE

Part Number	Model Number	Alarm Current	ID
LK 7967220-R	LKC-220R	88mA (98mA @ 26.5V MAX)	HB-72
LK 7967004-R	LKC-4	88mA (58mA @ 30.0V MAX)	N/A
LK 7967220-L	LKC-220L	67-80mA @ 24V (88.5mA @ 26.5V DC MAX)	HB-64

Base Model	Box Mounting		
	3" Oct	4" Oct	4" SQR
LK4-Base	Yes	No	No
LK6-Base	No	Yes	Yes
LKC- Base	No	Yes	Yes

APPROVALS



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FIRE ALARM CONTROL PANELS



EXTINGUISHANT CONTROL PANEL

Luke Extinguishant Control Panel provides reliable fire detection, signaling and protection for commercial, industrial buildings requiring agent-based releasing. It is designed and manufactured to the highest standards in quality controlled environment and offers outstanding value and performance for all small to medium fixed firefighting installations. With three initiation circuits as standard, release can be configured to activate from any two from any combination of detection zone inputs to allow (among other combinations) any two from three type activations such as would be required for detection in ceiling void, room and floor void applications.

The extensive configuration options of the Luke Extinguishant Control Panel allow the functionality of the system to be extensively modified.



LK 7961810-13

APPROVAL



FEATURES

- UL864
- Three initiation circuits as standard
- Any single zone or any combinations of zones can be configured to release
- Configurable first stage NAC delays
- Configurable detection delays
- Zero time delay upon manual release option
- Compatible with I.S. barriers
- Internal trouble diagnosis indicator
- Non-latching zone input option to receive signals from other systems such as aspirating equipment
- Configurable releasing delays up to 60 seconds in 5 second steps
- Configurable releasing duration up to 5 minutes in 5 second steps
- Countdown timer shows time remaining until release
- Supports up to seven, four wire status indicators
- Built in Extract Fan control

PROGRAMMABLE FUNCTIONS

Access Level 2

- Test Zones 1 to 3
- Disable Zones 1 to 3
- Disable 1st Stage Alarms
- Disable Pre-activated 1st Stage Relay
- Disable Pre-activated 2nd Stage Relay
- Disable Extract Fan Output
- Disable Manual Release Input
- Disable Releasing Sub System
- Activate Extract Fan Output

Access Level 3

- Sounder Delay
- Coincidence Detection
- Disable Panel Features
- Zone Alarm Delays (Detectors)
- Zone Alarm Delay (Call stations)
- Configure Zone for I.S Barrier Use
- Zone Short Circuit Alarm
- Zone Non Latching
- Zone Inputs Delay
- Extinguishant Release Time Delay
- Extinguishant Release Duration Timer
- Extinguishant Reset Delay Timer



CONTROL SWITCHES



LK 7965003

ABORT STATION

Abort Station is a manually-activated, electric device designed to let the user suspend discharge of the fixed fire protection system. It is easy to distinguish from standard fire alarm stations. The station is activated by pushing and holds the button in the center to abort the agent release.

SPECIFICATIONS

- Size: 70mm W x 115mm H x 25mm D
- Weight: 125g +-5%
- Material: Zinc Alloy
- Operating Temperature: 0°C - 55°C
- Indoor Use Only



LK 7965004

RELEASING CIRCUIT DISABLE SWITCH

The Release Circuit Disable Switch consists of a stainless steel faceplate, green LED, amber LED, and switch assembly. It is designed to mount on a standard single gang electrical enclosure. The switch is designed for indoor use only. The colors of LED indicate the status of the operating system.

SPECIFICATIONS

- Environmental Specifications:
Indoor Use Only
- Temperature Range: 22°F - 140°F (-30°C - 60°C)
- Power Requirements: 24VDC
- Material: Zinc Alloy



LK 7965001

MAIN-RESERVE SWITCH

The Main-Reserve Switch is required for Luke main/reserve fire suppression systems. The switch position determines whether the release circuit signal activates the main system release or the reserve system release. It consists of a key operated switch, normally-open contact block, normally-closed contact block.

SPECIFICATIONS

- Environmental Specifications:
Indoor Use Only
- Temperature Range: 22°F - 140°F (-30°C - 60°C)
- Power Requirements: 24VDC
- Contact rating: 1 Amp @ 40 VDC

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AUDIBLE
DEVICES



FIRE ALARM BELL

Bells produced a unique sound that is quite distinctive and unlikely to be confused with any other alarm. All bells incorporate highly efficient rotary centrifugal movements combining high sound output with low current consumption.



LK 7962B1024-C

LK 7962B624-C

Part Number	LK 7962B624-C	LK 7962B1024-C
Model	LK-24	LK-10-24
Gong Size	6"	10"
Voltage	24VDC	24VDC
Current	20mA	100mA
Sound Level	96dB at 1 m	96dB at 1 m
Driving Way	Motor	Coil
Weight	1 kg	1.5 kg
Operating Temperature (Indoor Application)	32°F to 120°F (0°C to 48°C)	32°F to 120°F (0°C to 48°C)
Operating Temperature (Outdoor Application)	-32°F to 150°F (-35°C to 65°C)	-32°F to 150°F (-35°C to 65°C)
Color/ Material	Red/Metal	Red/Metal
BB-WP Dimension	425"Wx425"Hx15"D	425"Wx425"Hx15"D

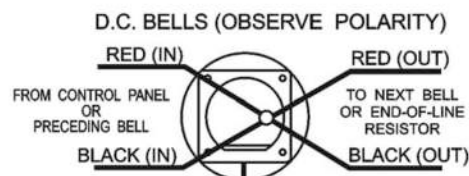
INSTALLATION NOTE

- 1 Remove the gong.
- 2 Wire the bell in the circuit.
- 3 Mount bell mechanism on 4" square standard outlet box with the striker facing down.
- 4 The bell must be mounted a minimum of 8ft., above the floor, or, as close to the ceiling as possible.
- 5 Polarized bell provides Red(-) and Black(-) lead wires. When the bell is installed, polarity must be observed.

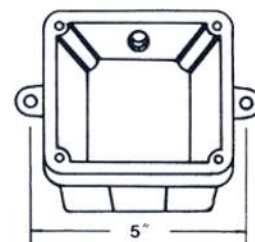
FEATURES

- UL Listed
- Available in 6" or 10" version
- High dbA output
- Mounts to a standard 4" square electrical box
- ANSI/UL Listed for outdoor use when used with the BB-WP weatherproof back box
- 18 AWG wire leads
- Meets ANSI/UL 464 requirements
- Red metal finish

WIRING DIAGRAM



WEATHERPROOF BACKBOX (LK-WP)



LK 7962BB-WP

Specifications		Diameter of Hole
American-Sized	One Hole	20mm
	Two Holes	20mm
European-Sized	One Hole	20mm
	Two Holes	20mm

APPROVAL



California State
Fire Marshal
7135-0410:0209



STROBE LIGHT BOX

EVACUATION STROBE LIGHT BOX

The Evacuate Strobe Light Box is a versatile, compact bright that is designed ideally for fire, security and hazard warning. It is used as the first alarm warning prior to the discharge of the fire suppression system. The solid-state LED Evacuate Sign offers high intensity of illumination at very low current consumption. The signage casing has excellent resistance to impact and heat



LK 7968101

GAS DISCHARGED STROBE LIGHT BOX

The Gas Discharged Strobe Light Box is used as the second alarm and discharge warning of fire suppression system. It is designed to work effectively with most detection systems. It is ideal for low current consumptions.



LK 7968102

FEATURES

- Durable
- Luminary: Ultra Bright LED
- Easy visible access

SPECIFICATIONS

- Dimension: 265mm (L) x 105mm (W) x 110mm (H)
- Casing Material: Electro-galvanized steel sheet
- Casing Color: Black
- LED Color: Red



ELECTRONIC SOUNDER BEACON

Luke Alexander Electronic Sounder Beacon is a very high output sounder beacon designed for industrial applications. It is especially designed for use with fire alarm systems, security systems and industrial signaling systems. Combined sounder and beacon provides an audio-visual warning which is suitable for places where high sound output and visual indication is required.



Electronic Sounder
LK 7962101

Electronic Sounder and Beacon
LK 7962102



FEATURES

- 32 signal tones selectable by Dip switch.
- High sound output with low current consumption.
- High efficiency lens for maximum light output.
- Volume Control as standard.
- Two sets of IN and OUT terminals, easy for installation.

SPECIFICATIONS

Voltage	24V DC
Current Consumption	14.5mA
24V DC (tone 3)	
Sound Output	Max. 114
24V DC dB (A) at 1 meter	
Volume Control	0 to -20dB adjustment
Ingress Protection	IP44
Ambient Temperature	-25°C ~ +80°C
Material	ABS Plastic
Dimensions	
LK 79620101	92.5mm(dia) x 94mm (H)
LK 79620102	92.5mm(dia) x 110mm (H)
Weight	
LK 79620101	254 g
LK 79620102	278 g

APPROVALS

EN54





OUTDOOR COMMANDER HORN/STROBE

The Outdoor Commander Horn/Strobe is equipped with a standard 4" mounting plate which incorporates a slide feature that allows the installer to easily test for supervision. The product also features a locking mechanism which secures the product to the bracket without any screws showing.

Included with the Outdoor Commander Horn/Strobe is the Luke Wall Mount Enclosure which is made of high quality material, providing protection from weather related conditions and allowing the necessary full candela output. This highly constructed enclosure meets various installation requirements including deterring moisture from entering the enclosures.



LK 7963121

Features

Nominal Voltage	24 VDC
Candela	75
Size of Outdoor Enclosure	(14.83 cm) high x (12.22 cm) wide x (8.255 cm) deep
Input Terminals	12 to 18 AWG
Switch Selection	High or Low dBA

Outdoor Commander Horn/Strobe Current Ratings

Horn Mode	Minimum dBA @ 10ft. per UL464 (HIGH)	Minimum dBA @ 10ft. per UL464 (LOW)	Regulated 24VDC Max. Operating @ High Setting (mA)
Temp 3 2400Hz	78	71*	28
Temp 3 Mechanical	76	70*	25
Temp 3 Chime	70*	66*	15
Continuous 2400 Hz	81	74*	28
Continuous Mechanical	80	72*	25
Continuous Chime	70*	66*	15
Whoop	82	69*	56



Luke Wall Mount Enclosure

The Luke Wall Mount Enclosure is constructed of durable plastic and is fully compatible with the Luke Outdoor Commander Horn/Strobe. Its backbox has an outdoor resistant seal for mounting to wall. The product also provides maximum visibility and reliability for effective visible signaling.



Back View



LK 342 WALLMOUNT CHIME / STROBE

Luke Wallmount Chime / Strobe is non-addressable and powered by 2-wired DC24V for wall or ceiling mounted indoor use only. The notification appliances can provide 15cd, 30cd, 75cd, 110cd level strobe and chime tone sound alarm. The appliances can be activated by the Luke Alexander SFM (Synchronize Functional Module) or control panel that is UL / ULC Listed.

The Wallmount Chime / Strobe can be separated from the control panel or SFM to work independently. When multiple products are connected to control panel or SFM, the sound and light between the products in the same circuit area can be synchronized.

When an alarm signal is emitted, it means there may be an emergency and should be attended to immediately.



LK 79690342



LK 7963405

PRODUCT SPECIFICATIONS

- Nominal Voltage: Regulated 24 VDC
- Operating Frequency Range: 750~1250Hz
- Operating Voltage Range: Regulated 16 VDC to 33 VDC
- Strobe Flash Rate: 1 flash per second
- Operating Temperature: 32° to 120°F (0° to 49°C)
- Humidity Range: 10% to 93%, non-condensing at 100°F (38°C)
- Dimensions: 130mmx130mmx83.5mm
- Connections: Terminal for 18 AWG to 12 AWG (0.82 mm² to 3.31 mm²)
- Mounting Box: 4x4 inches Double Gang Box
- Model: LK 342-WT
White / Wall Mounting
- Model: LK 342-RD
Red / Wall Mounting

FEATURES

- Tamper-resistant construction
- Easy Installation
- Candela Ratings: 15, 30, 75 and 110
- Built in synchronization feature
- Can independently work with or without the control panel
- Can give auditory and visual alarm at the same time
- Long service life
- Low power consumption
- Excellent aesthetics design

WEATHERPROOF BACK BOX

(P/N: LK 7963405)

- Non Corrosive
- Robust Design
- Durable

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MANUAL INITIATING DEVICES



LKS-DAK CONVENTIONAL MANUAL PULL STATION, DUAL ACTION CAT30 KEY

LKS-DAK is a dual action and constructed of a solid die cast housing and comes in glossy red. The back switch plate is plated steel. The electrical switch is rated for 10 Amps @ 120 VDC normally open contact rating. LKS-DAK is connected via terminal block connections.



LK 7967002-DA



LK 7962BB-HPS

FEATURES

- Metal Construction
- Enclosed switch with glass rod (included)
- 10 Amps @ 120 VAC
- Available in: Single Action, Dual Action and Dual Action in Spanish (HPS-DAH/S)
- UL, CSFM Listed
- Made in USA

SPECIFICATIONS

Model	LKS-DAK
Contact	SPST Form A
Terminal Block	A
Terminal Connecting	2 & 3
Terminal Connection LED	1 (+) & 4 (-)
Terminal Connection Switch	1 & 4
Terminal Connection Phone Jack	1 & 4
Contact Rating	10A @ 120 VAC
Operating Temperature	-30°F (-35°C) ~ 150°F (66°C)

INDOOR SURFACE BACK BOX

(P/N: LK 7962BB-HPS)

- Red Metal Finish
- Impenetrable
- High Quality Metal

APPROVALS





LKS-DAK-WP WEATHERPROOF MANUAL PULL STATION

LKS-DAK-WP Weatherproof Manual Pull Stations are constructed of high quality, die-cast metal entirely of nontoxic materials with a low profile and rounded edges to fit most design requirements and for long lasting performance.

LKS-DAK-WP is an fire alarm initiating device that is applicable in outdoor mounting of the fire alarm manual pull station.



LK 7967003-DA

FEATURES

- 10 A, 120 VAC contacts
- Corrosion-resistant construction
- Weatherproof Manual Pull Station
- Rugged die-cast aluminum housing and backbox
- Neoprene sealing gasket
- Screw terminal connections
- KEY reset
- Lift and Latching pull-down lever
- Enclosed switch with glass rod (Included)

SPECIFICATIONS

Model	LKS-DAK-WP
Contact	(1) Form A
Contact Ring	10A @ 120VAC
Operating Temperature	-30°F (-35°C) ~ 150°F (66°C)

INDOOR SURFACE BACK BOX

(P/N: LK 7962BB-HPS)

- Available in red
- Universal mounting to most electrical boxes
- Reinforcement steel hardware



LK 7962BB-HPS

APPROVALS



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LUKE ALEXANDER

A PREMIER FIRE SUPPRESSION CORPORATION



ELECTRICAL

ACCESSORIES & CABLES



HEAVY DUTY MAINTENANCE FREE LEAD CALCIUM BATTERY

Heavy duty battery has established itself as a premium high performance battery suitable for a wide range of demanding applications. Also offers deep cycling capabilities, fast recharge abilities and a non spillable design which allows mounting in any position

FEATURES

- Non-Spillable
- Sealed and Maintenance Free Operation
- High Quality and High Reliability
- Exceptional Deep Discharge Recovery
- Low Self-Discharge
- Long Service Life
- Solid Copper Terminals
- Tank-Formed Plates
- Computer-Aided Design and Manufacturing



TECHNICAL SPECIFICATIONS (5 Years Design Life @20°C)

Battery P/N	Volts	Capacity	Dimension				Weight	Terminal	
	V	Ah	L	W	H	OH	kg	Type	Position
LK 7964101	12	5.0	90	70	101	107	107	T1	C
LK 7964102	12	7.2	151	52	94	100	100	T1/T2	F
LK 7964103	12	9.0	151	65	94	100	100	T1/T2	F
LK 7964104	12	12.0	151	65	95	101	101	T2	F
LK 7964105	12	18.0	181	98	167	167	167	T3/T8	D
LK 7964106	12	24.0	166	77	125	125	125	T3/T8	D
LK 7964107	12	28.0	166	175	125	125	125	T3/T8	D

TECHNICAL SPECIFICATIONS (10 Years Design Life @20°C)

Battery P/N	Volts	Capacity	Dimension				Weight	Terminal	
	V	Ah	L	W	H	OH	kg	Type	Position
LK 7964108	12	35	195	130	159	180	11.3	T7	C
LK 7964109	12	45	197	165	170	170	13.7	T4/T9	D
LK 7964110	12	55	229	138	208	230	19.5	T5/T9	C



AC SURGE ARRESTER

AC Surge Arrester used to increase the availability of the power supply of the system and is a recognized and effective solution to solve the overvoltage problem. Typical uses include the protection of CCTV cameras and equipment, Alarm panels and systems, telemetry and data acquisition equipment and control circuits.



LK 7964202

FEATURES

- Low let-through voltage minimizes the transient voltage to a safe level to ensure maximum protection for your equipment.
- Protection between all sets of conductors (phase to neutral, phase to earth and neutral to earth) closes all transient paths to equipment for complete protection.
- Provides repeated protection in lightning intense environments with 10 years predicted lifetime.
- Compact size for easy incorporation in the protected system.
- Robust housing.
- Fixing holes ready for flat mounting.
- Removable DIN rail foot for simple clip-on mounting to top hat DIN rails (ESP 120-5A, ESP 240-5A, ESP 120-16A, ESP 240-16A).
- Color coded terminals give a quick and easy installation check - grey for the dirty (line) end and green for the clean end.
- Available ready-boxed to IP66 for use in dirty or damp environments (ESP 120-5A/BX, ESP 240-5A/BX, | ESP 120-16A/BX, ESP
- Available for 90-150 volts and 200-280 volts supplies.
- Suitable for use on supplies of up to 5 or 16 amps.
- Protectors with /BX suffix come ready-boxed, to IP66, for use in dirty



DC SURGE ARRESTER

DC Surge Arrester designed to protect power systems from damage due to lightning, transients and power surges. This surge arrester helps to eliminate potential threats and thus maximize the systems life expectancy.



LK 7964201

FEATURES

- Low let-through voltage between all sets of conductors (positive to negative, positive to earth and negative to earth).
- Repeated protection in lightning intense environments with 20 years predicted lifetime.
- Visual indication of protector status.
- Advanced pre-failure warning so you need never be unprotected.
- Remote indication facility allows pre-failure warning to be linked to a building management system, buzzer or light.
- Robust steel housing.
- Simple parallel connection.
- Base provides ultra low inductance earth bond to metal panels.
- Compact size for installation in the power distribution board.
- Maintenance free.



FIRE RESISTANT CABLES

Resistance to fire is the ability of a material or assembly to withstand fire or give protection from it and it is measured as the time a product can maintain a level of functionality during a fire. These cables are manufactured with plain annealed solid or stranded copper strands. The conductors are protected with fire barrier tape and are insulated with either a LSZH thermosetting compound.



LK 7969201

Part Number	Dimension	Cores
LK 7969201	2 x 1.5 mm ²	2 Cores
LK 7969202	2 x 2.5 mm ²	2 Cores

FEATURES

- Able to maintain functionality
- The duration of survival in working condition
- High Quality and High Reliability
- Armoured Cables

APPLICATIONS RANGE

- Specially designed to be use for wiring applications in critical life safety system in public and industrial buildings such as airports, hotels, hospitals, subways, train stations, etc.
- In building management systems, emergency lightings, standby power supplies, lifts and elevators.

SPECIFICATIONS

Conductor	Plain Annealed Copper
Fire Barrier	Mica Tape
Insulation	(a) XLPE Compound or (b) XLEVA Compound Aluminum/ Polyester Tape with full size tinnec annealed copper circuit protective conductor
Overall Screen:	LSZH Compound
Sheath	Insulation: 2 Cores - Red & Black/ Brown & Blue 3 Cores - Red, Yellow & Blue/ Brown, Black & Grey 4 Cores - Red, Yellow, Blue & Black/ Brown, Black, Grey & Blue
Sheath	Sheath - Orange 857629-1 / In House IEC 60331 BS 6387 (C, W, Z), SS 299 (C, W, Z) IEC 60332-3, BS 4066-3, BS EN 50266-2-2 IEC 60754-1, BS 6425-1, BS EN 50267-2-1 IEC 60754-2, BS 6425-2, BS EN 50267-2-2 IEC 61034-2, BS 7622-2, BS EN 61034-2
Voltage U ₀ /U:	300/500V
Conductor	
Stranding:	Class 1 or Class 2
Operating	
Temperature:	(a) Max 90° C for XLPE
Minimum	
Bending Radius:	(b) Max 110°C for XLEVA - 6D for unarmoured cable

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TEST EQUIPMENTS



HYDROSTATIC WATER JACKET CYLINDER TEST MACHINE

Hydraulic Water Jacket Cylinder Test Machine is suitable for testing pressure vessels such as gas cylinders, fire extinguishers, etc... It helps to determine the volumetric expansion of a specific pressure vessel.

How it works?

The cylinder filled with water is enclosed inside the test jacket which is also filled with water. Pressure is then applied internally to the cylinder, causing the cylinder to expand. The total and permanent volumetric expansions of the cylinder are determined by measuring the amount of water displaced by the expansion of the cylinder when under pressure and after the pressure has been released. According to D.O.T. (49 CFR) requirements, permanent volumetric expansion may not exceed 10% of the total volumetric expansion at test pressure. However, volumetric expansion acceptance criteria depends on which standard is applied.



TECHNICAL FEATURES

- Manually operated
- Test Range of 550-4500 PSI
- Air Operated Test Pump
- Calibrated Pressure Gauge(s)
 - Class 3A, 1/4% Accuracy - 8.5" Diameter
 - 0-1500 PSI x 2 psi Increments
- Pressure Pulsation Dampener
- Calibrated Cylinder for Full Test Range
 - Expansion Chart and Adapter Included
- Enamel Painted Steel Cabinet

PRODUCT CONSIDERATIONS

- Your Choice of 6 Different Water Jacket Sizes
- Your Choice of Burette Tubes or Digital Scale for Expansion Reading
- Set of 3 Test Adapters
- Video and Written Instructional Manuals
- Training Seminar at our facility
- Calibration Certificates
- Exceeds US D.O.T requirements for accuracy & readability



HFC-227EA LEAK TESTER

Luke Test System is dedicated to providing our customer with superior quality leak testing system. With access to advanced designs, features and test algorithms in our leak tester devices, we promise a fast and reliable leak test product that will also provide repeatable results for air leakage, gas leakage, or any other leak where reliable testing equipment is needed. HFC-227ea Leak tester is critical to ensuring proper product quality, safety and performance.



LK 7972003

FEATURES

- LED Leak Size Indicators
- Two sensitivity positions, including our unique Scan Mode
- Reset Button for instant re-calibration
- Detachable probe
- High efficiency pump
- Detects All Halogenated Refrigerants, including R-410A
- Constant Power Indication
- Carrying case and spare sensing tip included

SPECIFICATIONS

- Ultimate Sensitivity: Less than 0.1 oz per year
- Power Supply: (2) 1.5VAC Batteries
- Probe/Cord Length: Probe: 14" (35cm) Cord: 36" (91.4cm)
- Operating Temperature 32°F -125°F (0°C -52°C)
- Battery Life: 30 hours
- Size: 7.75" x 3.20" x 12"
- Weight: 2.75lb



REFRIGERANT LEAK DETECTOR

Luke Portable leak detectors feature digital signal processing at tip 2000 times a second and detect all halogenated refrigerants. Test System is dedicated to providing our customer with superior quality leak testing system. Able to deplete the ozone layer that blocks the sun's harmful ultraviolet radiation. Refrigerant Leak tester is critical to ensuring proper product quality, safety and performance.



LK 7972008

Full featured but easy to use, the original TIF detector. The detector offers the detachable, flexible probe with micro-pump, leak intensity indicators, and all the features you have come to know and trust. Includes the patented SCAN mode that revolutionized leak detection.

FEATURES

- Tri-colour, six-segment visual leak size indicator display 18 alarm levels
- LED Leak Size Indicators
- Seven levels of sensitivity adjustments provide an increase of up to 64x including our unique ScanMode
- Battery test function with true voltage indication
- Mute feature silences audible alarm
- Reset Button for instant re-calibration
- Detachable probe
- High efficiency pump
- Detects ALL Halogenated Refrigerants, including R-410A
- Constant Power Indication
- Carrying case and spare sensing tip included
- Tactile keypad control

SPECIFICATIONS

- Power Source: 3V DC; 2 "C" cell alkaline batteries
- Ultimate Sensitivity: LK 7972008 - Less than 0.1 oz./yr. (3 g/yr.)
- Sensing Tip Life: Approx. 20 hours
- Operating Range: 30° to 125° F (0° to 52° C)
- Battery Life: LK 7972008 - Approx. 30 hrs.
- Duty Cycle: Continuous
- Response Time: Instantaneous
- Reset Time: One second
- Warm-up Time: Approx. 2 seconds
- Unit Weight: 1.2 lbs. (560 grams)
- Unit Dimensions: 9" x 2.25" x 2.25" (22.9 cm x 5.7 cm x 5.7 cm)
- Fixed Probe Length: 14" (35.5 cm)



SMOKE PUFFER

Smoke Puffer is a major step forward in the design of smoke detector testers and is an essential tool when conducting a blower door test or duct leakage test. It is designed to deliver a generous plume of non-toxic fog to test for air flow in many applications. This smoke puffer cannot be used too close to the detector and eliminates harmful residue while focusing and targeting the canned smoke test gas.



LK 7972006

FEATURES

- The smoke puffer uses a reactive chemical to produce a dense, white, neutral buoyancy smoke.
- Air-flow Direction
- Both recyclable and eco-friendly
- Meets global testing standards
- Pressure neutralization
- Backdraft, spillage and heat exchange leaks
- The extending sabre is made of 100% bio-degradable plastic making
- Lightweight & easy to use
- Cost effectively at a flick-of-the-wrist
- More tests per can
- Faster detector activation and clearing
- Lowest cost per test
- Ozone friendly, no CFCs and low GWP Detector manufacturer endorsement UL and ULC Listed

SPECIFICATIONS

- Weight : 150ml
- Dimensions : 7.60" x 1.96" (19.3 x 5 cm) diameter barrel
5.39" (13.7 cm) rubber extension tube



BUILDING AIR TIGHTNESS TESTING SYSTEMS

Blower Door tests are used to measure the air tightness level of building envelopes, diagnose and demonstrate air leakage problems, estimate efficiency losses from building air leakage, and certify construction integrity.

Blower Door Features

- Lightweight and rugged injection molded fan housing.
- Quick and accurate flow measurements from 300 to 6,300 CFM (141 to 2,973 l/s, 510 to 10,700 m³/h). Optional rings C, D and E will measure down to 11 CFM (5 l/s, 19m³/h)
- Solid state variable speed fan control.
- Compatible with both pressurization and depressurization testing.
- Fan flow is reversible for diagnostic testing.
- Both 110V and 220V models available

Multi-fan Blower Door Systems

Airtightness testing of larger buildings requires more fan flow. The Minneapolis Blower Door can be configured to install 2 or 3 fans in a single doorway, making it possible to measure the airtightness of almost any size room or building.

"Anatomy of the Minneapolis Blower Door"

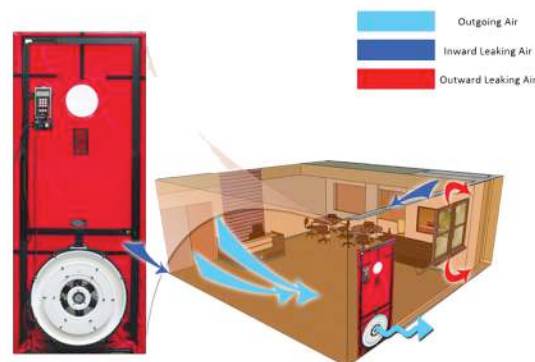
- Lightweight, Durable Door Frame and Panel
- DG-700 Pressure and Flow Gauge
- 2 Fan Speed Controller
- Powerful and Reliable Calibrated Fan
- Automated Testing Options

FST Digital Enclosure Test Kit

The FST Digital Enclosure Test Kit is designed specifically to satisfy the peak pressure and hold time requirements of NFPA 2001. The Minneapolis Blower Door™ has long been recognized as the best designed and supported building airtightness testing system in the world. Combined with specialized accessories and testing procedures developed by The Energy Conservatory, the Minneapolis Blower Door™ is the system of choice for utility DSM programs, energy raters, HVAC contractors and weatherization professionals.

FEATURES

- DG-700 Digital Pressure / Flow Gauge
- Direct Reading 4 Digit LCD Display
- Compact, 6300 CFM Fan
- Fully Collapsible Aluminum, Commercial Sized Door Frame
- EIT Quick Test 2001 Enclosure Integrity Test Software
- Handheld digital gauge, compact fan, collapsible aluminum frame
- Complete Test Kit





BUILDING AIR TIGHTNESS TESTING SYSTEMS

Blower Door Accessories and Options

Standard Minneapolis Blower Door Kit includes:

- Fan with variable speed controller and fan control cable
- Two flow rings (A and B) and No-flow plate
- DG-700 Pressure and Flow Gauge
- TECTITETM Building Airtightness Testing Software
 - Calculates building airtightness test results including leakage areas, ACH50, CFM50, building leakage curve, estimated natural and design infiltration rates and the estimated savings of air-sealing.
- Compatible with both manual Blower Door tests and automated tests using a DG-700 or APT System.
- Calculation procedures and reports are done in accordance with CGSB-149.10-M86. Mechanical ventilation requirements calculated in accordance with ASHRAE 62.2.
- Easy to use data entry screens, file storage and file retrieval features.
- RESNET testing options
- 16-foot (5 meter) USB cable
- Fabric door panel with viewing window
- Five piece adjustable aluminum door frame and frame case
- Padded attache case for gauge, manuals, tubing, speed controller and fabric panel, with room for a laptop computer and other documents

Optional equipment includes:

- Wireless connection to your laptop using TEC WiFi Link.
- Smoke puffer
- Fan cases
- Pressure pans

We offer several case options to meet our customers' requirements. The hard cases shown below are rugged and are suitable for shipping the equipment from location by UPS or the airlines. They will also withstand the abuse of the equipment often receives when used by a number of different technicians. The soft, padded cases listed below are more compact and easier to carry but not quite as rugged.

Optional Cases

- | | |
|------------|--|
| LK 7967001 | Padded, zippered Cordura Blower Door Fan, Black |
| LK 7967002 | Padded attache case to hold gauges, manuals, hoses, speed controller and nylon frame cover with room for laptop computer and other documents. |
| LK 7967003 | Custom hard case for Blower Door Fan, room for drop cords, door cover and miscellaneous items, black. 24 1/4" x 11" x 27" case wt 26 lbs with fan 65 lbs. |
| LK 7967004 | Custom hard case for FST Special Door Frame, all-weather design with continuous "O" ring seal against water and dust. Heavy gauge molded HDPE with reinforced ribbing, six clamping latches and provision to add your padlock for security, black. Now with wheels and extra handle for easy portability. Supplied with foam for internal padding. 54 1/2" x 17 1/4" x 6" case wt. 20 lbs. with frame 41 lbs. |
| LK 7967005 | Custom hard case will hold gauges, manuals, hoses, speed controller and nylon frame cover with room for laptop computer and other documents. Matches all-weather design with continuous "O" ring seal against water and dust. Heavy gauge molded HDPE with reinforced ribbing, six clamping latches and provision to add your padlock for security, black. Now with wheels and extra handle for easy portability. Supplied with foam for internal padding. 20 3/4" x 16 1/4" x 9 1/2" case wt. 12 lbs. with control module 22 lbs. |





CALIBRATION KIT

Calibration Kit contains calibration standards that measure the known devices of the system over the frequency range of interest to detect systematic errors.

Leak standards are available in either chlorine based R12 refrigerant or the new environmentally safe fluorine based R134a as a standard product. These standards can be used to accurately calibrate existing leak detector products that require an external accurate leak source. In addition, they are valuable instrument for verifying the accuracy of the new micro-processor based industrial leak detectors containing an internal leak standard for automatic self-calibration. Each model contains laboratory grade glass capillary tube which is matched to the refrigerant composition and the pressure required to provide an accurate test leak rate.



FEATURES

- Single-case solution for calibrating gas sensors and gas detectors
- lightweight, rugged, and easy to transport and store
- easy to used for quantitative measurements of actual leaks and background contamination than either the calibrated leak or leak capsule
- afford a high degree of accuracy for testing, calibrating or verifying the calibration accuracy of halogen leak detectors

LEAK RATES

Std. cc/sec	oz/year R12	oz/year R134a
3×10^{-5}	17×10^{-2} or (0.17)	14×10^{-2} or (0.14)
10×10^{-5}	5.6×10^{-1} or (0.56)	4.7×10^{-1} or (0.47)
10×10^{-4}	5.6×10^{-2} or (0.17)	4.7×10^0 or (4.7)

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**MACHINE
EQUIPMENTS**



NOZZLE DRILLING & MARKING EQUIPMENT

NOZZLE DRILL STATION

Nozzle Drill Station a vertical miller is designed to shape nozzles. Luke Drilling Machine is powerful, precisely constructed and easy to operate. It has high accuracy performance. It provides the most secure and rigid placement of the nozzles to be drilled as well as allowing for precision movement of the nozzle during the drilling process. Floor mounted drills are also permitted for use in Luke Field Nozzle Drilling Station, however are not recommended as they do not provide the same level of precision as the aforementioned models.



LK 7972001
Nozzle Drill Station

Indexing/Dividing Head

An indexing head is required as part of the drill press assembly. The indexing head provides secure fastening of the nozzle of the drilling station. In addition the indexing head, when attached to the drill press, allows for precise angular rotations of the nozzle, ensuring even, accurate and correct spacing of drill points.

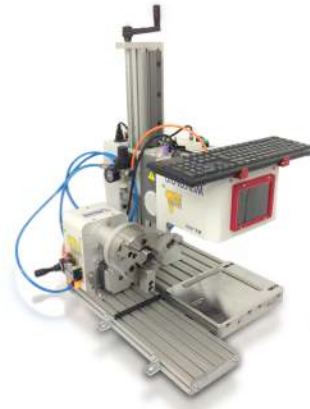
Drill Bits

Luke Field Nozzle Drilling Stations are required to contain the following sets of drill bits:

- Wire Gauge Set #1
- Fractional Inch, 1/16" - 21-/32" in 1/64" increments, 39 pieces
- Lettered bits A-Z, 26 pieces
- Center Point Punch
- Countersink bits, #2 for holes 0.25" and smaller, #5 for holes larger than 0.25"
- Burr Tool

NOZZLE MARKING & LABEL MARKING MACHINE

Luke's marking machine is use to mark permanent logo, part number, and manufacturing details on the top of the nozzle. . Luke recommends drill lubricant be applied during process because it reduces the amount of drill bit breakages.



LK 7972002
Nozzle Marking and
Label Marking Machine

FEATURES

- Independent, stand along design, no PC needed
- 110/200V power auto shift
- User friendly software, use keyboard to operate it easily in 5.7" color TFT-LCD screen including 3rd axis rotary marking option
- Above 400M memory space with file management function can save at least 30,000 files, USB slot for PLT drawing importing, exporting and saving
- With VGA ports for extra monitor, RS232 and I/O for PLC or PC communication
- Apply on nozzle

SPECIFICATONS

- Marking Area: 100 x 100mm (MP100i)
- Marking Height: 320mm max
- Text Height: 1mm - 100mm
- Text Fonts: 8 standard fonts with space and width compression
- Working Power: Air pressure 2-5 bar max, electric 110/220 Volt 160W
- Marking Speed: 1-4 letter/sec (3-2mm text) adjustable
- Marking Style: Linear text with angles, Arc or circular marking serial number, date and logos
- Accessories: Foot switch, 3rd axis DRT, Nameplate fixture, Name plate feeder, I/O cable
- Machine Dimensions: 535x240x771mm (L x W x H)
- Weight: 35 kg



MODEL LV227 LIQUID TRANSFER & VAPOR RECLAIM MACHINE

A machine that is specifically designed for handling Clean Agents. It is a very high operationally efficient unit, since it is possible to transfer and recover HFC-227ea clean agent using single unit. It is able to recover the maximum amount of product from the source tank, this machine is also extremely cost effective. There are two separate sections in the LV227 unit. The first section completes the transfer of the liquid HFC-227ea from cylinder and its pressurization with nitrogen at 24 or 42 bar. The second section allows the residual vapor of HFC-227ea to be recovered from the source/storage cylinder/tank.



LK 7972003

MAIN COMPONENT AND DEVICES

Pumping Section

- Pressure gauges for inlet pressure of HFC-227ea filling pressure and nitrogen inlet pressure control Indicator lights for: pump section activated, pump on and overload protection indication
- Filling pump with 3 ceramic pistons, brass head, and stainless steel valves
- Pressure relief valve
- Pressure switch.

Vapor Recovery Section

- Pressure gauges for inlet pressure and recovery pressure control
- Indicator lights for recovery section activated, recovery unit on and overload protection indication
- Two stage compressor
- Forced ventilation air condenser
- Pressure relief valve
- Pressure switch.

TECHNICAL FEATURES

Pump Specifications

- Flow rate (kg/min): 6
- Maximum Working Pressure (bar): 70

Recovery Section Specifications

- Flow rate (kg/min): 0.7
- Maximum Working Pressure (bar): 21
- Recovery Efficiency (%): about 90%

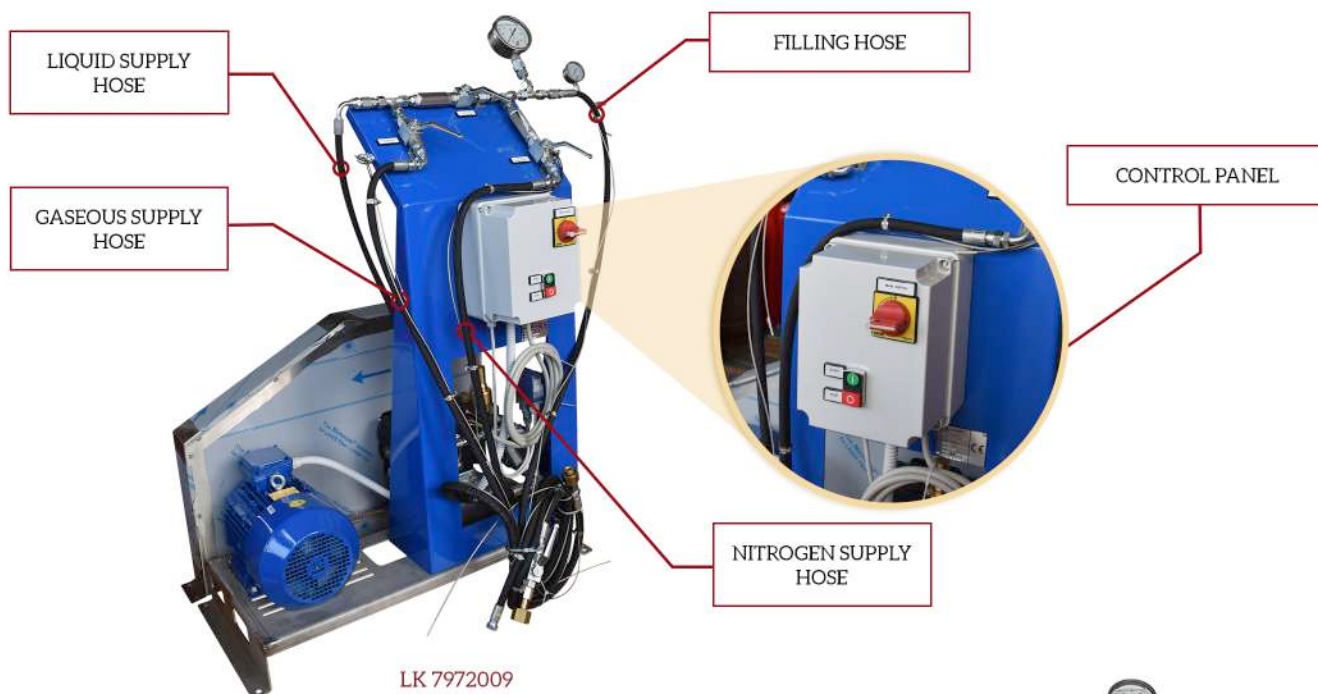
Overall Specifications

- Voltage/Frequency (VAC/Hz): 400/50
- Power (kW): 4
- Dimensions (L x W x H)(mm): 1250 x 700 x 1590
- Weight: 300 kg



MODEL 103 FK 5-1-12 FILLING MACHINE

Machine Model 103 FK 5-1-12 filling machine is suitable to handle various clean agents. The hoses transmit pressurized nitrogen from source tank to cylinder. For product transferring, it's necessary to have an electronic scale (supplied only under specific request). The unit consists of a frame on which are installed the pump and all management instruments of the system. It is electrically operated.



TECHNICAL FEATURES

- MODEL: 103 FK-5-1-12
- PART NUMBER: LK 7972009
- MOTOR SUPPLY: 4 kW
- MAX FLOW RATE: 6 Kg/min
- MAX WORKING PRESSURE: 60 bar
- MAX N₂ SUPPLY PRESSURE: 50 bar

OVERALL SPECIFICATIONS

- DIMENSIONS: 1000 x 500 x (h) 1100 mm
- WEIGHT: 150 Kg
- NOISE: < 80 db





LUKE 5112 LIQUID MIXER

The Luke Liquid Mixer for FK 5-1-12 clean agent have excellent wear resistance. At a preset frequency, the mixer vibrates to accelerate the Nitrogen diffusion with the clean agent inside the cylinder. The operation time for the vibrating movement can vary from 3 to 5 minutes for cylinder sizes from 20 lbs to 650 lbs, and 7 to 10 minutes for cylinder sizes from 800lbs to 1200lbs. To prevent from moving or fall down, the cylinder shall be secured on the metal support frame by using the ratchet strap(s) or cylinder strap(s).



Technical Specifications of the Liquid Mixer

- Maximum Loading Capacity: 2 Cylinders (depends on the size of the cylinder)
- Minimum Cylinder Diameter Ø: 273.1 mm
- Maximum Cylinder Diameter Ø: 762mm
- Maximum Cylinder Height: 1800 mm
- Dimension: 1200mm x 1200mm x 1000mm
- Weight: 150 kg.

Vibrator Technical Data

- Centrifugal Force (KN): Min. 1.5 - Max. 5.0
- Working Moment (KGCM): Min. 3.0 - Max. 10.0
- Frequency (Hz): 50
- Rotational Speed (RPM): 3.000
- Voltage 3 ~ (V): 220-260 / 380-440
- Power (KW): 0.34
- Nominal Current (A): 1.16 / 0.67
- Protection: IP 65

CONTACT DETAILS

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