BIGLEAP
FIRESAFETY CORPORATION

CLEAN AGENT
Fire Suppression Systems

BIGLEAP
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CHEMICAL PROPERTIES

FK-5-1-12

Chemical Name	FK-5-1-112
Empirical Formula	CF3CF2C(O)CF(CF3)2
CAS Number	756-13-8
Molecular Weight	756-13-8
Boiling Point	490C
Freezing Point	1800C
Viscosity Liquid (250C)	0.524Cp
Vapor Pressure (250C)	40.4Kpa
Extinguish Concentration (Cup)	4.5%
NOAEL (v/v)	10%
LOAEL (V/V)	>10%
LC50 (V/V)	>10
Ozone Depleting Potential	0
GWP	1

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INTRODUCTION

FK-5-1-12, full chemical name perfluoro(2-methyl-3-pentanone), heptafluoroisopropyl pentafluoroethyl ketone, is a sustainable substitute for Halon 1301 with excellent fire extinguishing performance and typical safety & environment characters of:

- √ Clean and do not leave residue
- √ Electrically nonconductive
- √ Safe for people and animal
- √ Zero Ozone Depleting Potential and low GWP

FK-5-1-12 material specification is in compliance with NFPA 2001 (standard on clean agent fire extinguishing systems) and ISO 14520 (Gaseous fire extinguishing systems.)

APPLICATION

FK-5-1-12 fire suppression agent is a sustainable substitute for Halon 1301. It is particularly useful in computer rooms, data processing centers, semiconductor manufacturing facilities, industrial process control rooms, petrochemical facilities, chemical storage rooms, libraries and museums, critical military applications and so on.

Quality Control

- √ Four times of UL follow-up service every year.
- √ Four time of FM follow-up service every year.
- √ Our quality control program is supported by advanced analytical facilities, which help to ensure that all raw materials, in-process materials and finished products are quality controlled at all stages.

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CHEMICAL PROPERTIES

HFC-227ea

Chemical Name	HFC227ea
Empirical Formula	CF3-CHF-CF3
CAS Number	431-89-0
Molecular Weight	170.03
Boiling Point	-16.360C
Freezing Point	-1310C
Viscosity Liquid (250C)	0.226Cp
Vapor Pressure (250C)	457.7KPa
Extinguish Concentration (Cup)	6.5%
NOAEL (v/v)	9%
LOAEL (V/V)	>10.5%
LC50 (V/V)	>80%
Ozone Depleting Potential	0

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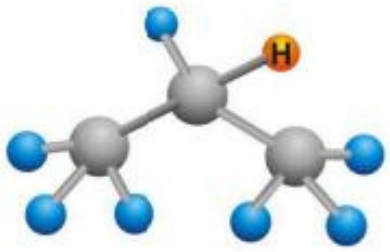
APPLICATION

HFC-227ea fire suppression agent is an optimal substitute for Halon 1301. It is particularly useful in computer rooms, libraries, semiconductor manufacturing facilities, data processing centers, industrial process control rooms, petrochemical facilities, chemical storage rooms and so on.

Description

- √ An environmentally substitute for Halon 1301 with zero ODP.
- √ Safe for people and animal.
- √ Clean and do not leave residue.
- √ Electrically nonconductive and noncorrosive.
- √ UL Recognized and FM Approved.



Quality Control

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PRODUCT CATALOGUE

DISCHARGE NOZZLE

360 degree - Nozzles

Product Code	SHU					
99	100	101	102	103	104	105

- Using the correct calculation software, the needed orifice diameter must be Estimated and the determined orifice size must be drilled out.

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PRODUCT CATALOGUE

DISCHARGE NOZZLE

180 degree - Nozzles

Product Code	SHU					
106	107	108	109	110	111	112

- Using the correct calculation software, the needed orifice diameter must be Estimated and the determined orifice size must be drilled out.

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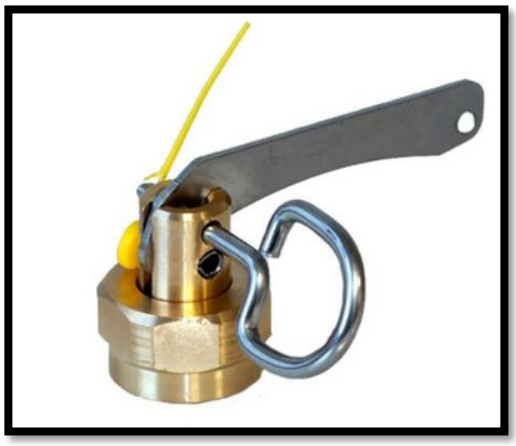
PRODUCT CATALOGUE

ACTUATORS FOR CYLINDER VALVES

Electrical Actuator



Manual Actuator

Product Code	SHU	TECHNICAL DETAILS
5	Electrical	Refer to the instruction Manual id the Electrical Actuator for all Technical Details
6	Manual	

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PRODUCT CATALOGUE

DISCHARGE HOSE

Discharge Hose (DN50)

Product Code		SHU			
400mm	450mm	500mm	600mm	700mm	800mm
38	**39**	**40**	**41**	**42**	**43**
900mm	1000mm	1100mm	1200mm	1300mm	1400mm
44	**45**	**46**	**47**	**48**	**49**

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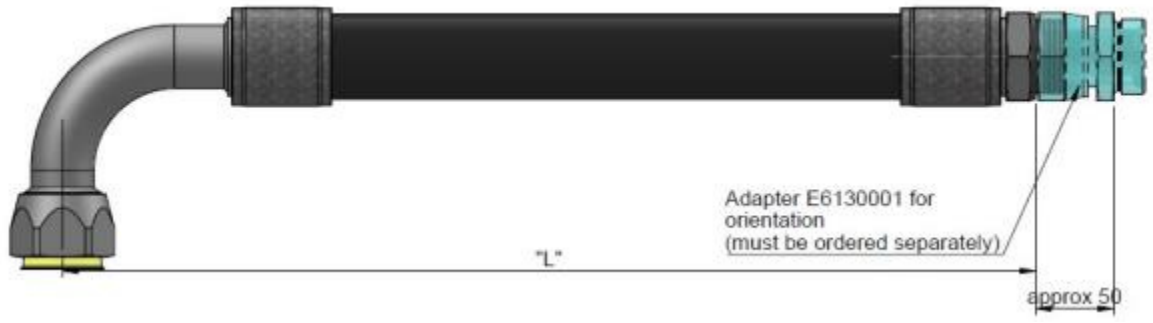
PRODUCT CATALOGUE

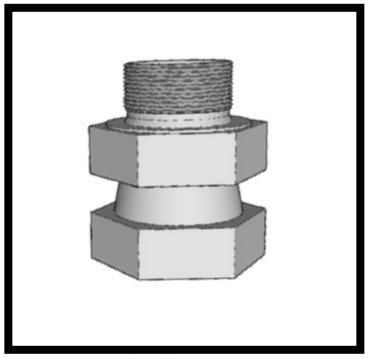
DISCHARGE HOSE

Discharge Hose (DN33)

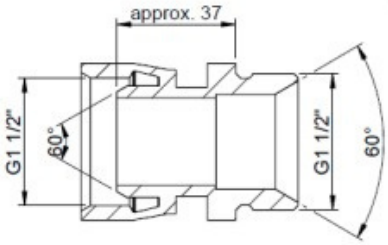
Product Code		SHU			
400mm	450mm	500mm	600mm	700mm	800mm
62	**63**	**64**	**65**	**66**	**67**
900mm	1000mm	1100mm	1200mm	1300mm	1400mm
68	**69**	**70**	**71**	**72**	**73**



Discharge Hose Adaptor



Product Code	SHU
74	**75**
For Orientation of Hoses with 90O Elbow	



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PRODUCT CATALOGUE

PRESSURE GAUGE WITH SWITCHING CONTACT

FK5-1-12

HFC227ea

Product Code SHU			
21		25	
Pressure Range	**Set Point**	**Switching Type***	**Remarks**
0-60 Bar	22.5 Bar	Normally Closed (NC)	Only for HFC227ea
0-60 Bar	45 Bar	Normally Closed (NC)	Only for

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SOFTWARE FOR HYDRAULIC FLOW CALCULATION

VdS Calculation Programs for Gas Extinguishing

- For inert Gas Systems with Orifice Plates **
- For Inert Gas Systems with Constant Pressure Regulator *
- For CO^2 Systems
- For Chemical Gas Systems (HFC's – Halocarbons) **

All Software Licenses must be purchased from Vds in Germany

* Standard VdS Software for Inert Gases (with Orifice Plates), CO^2 and Chemical Gases

- Flow Coefficients of Components are available on request to implement into the existing Flow Calculation Software Version

Jensen Hughes Flow Calculation Software

- For Inert Gas Systems with Constant Pressure and Orifice Plates*
- For CO^2 systems **
- For Chemical Gas Systems (HFC's – Halocarbons) **

*** Customized Software for Inert Gases –** available end of 2021

- Software Licenses will be sold by Valves and Regulators
- Flow Coefficients of each component are already included.
- Software will be UL/FM – tested and approved.
- Only if all components are used
- If other products shall be used, the software Approval will not be valid

*Standard Jensen Hughes Software for CO and Chemical Gases

- Software Licenses must be purchased from Jensen Hughes
- Equivalent Length data of components will be available upon request to implement into the existing Flow Calculation Software Version.

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