



BARTER GROUP
FIRE PROTECTION
SOUTH AFRICA

DLP CLEAN AGENT FK5-1-12 SYSTEM UNIT

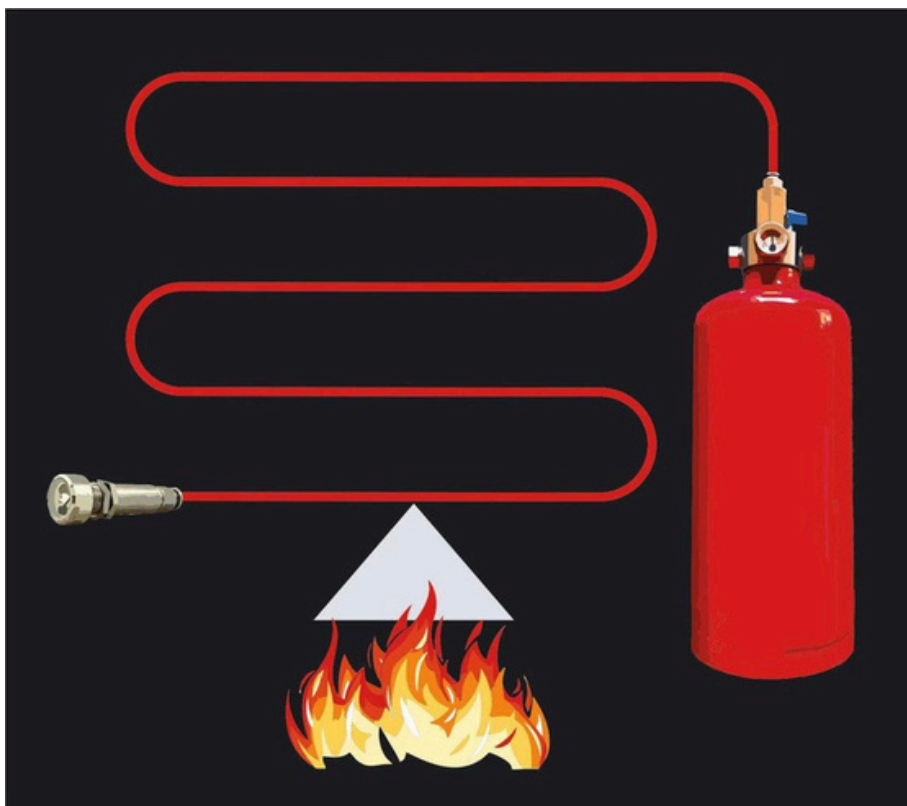
FIRE FIGHTING SYSTEM



PRODUCT DESCRIPTION & PRINCIPLE OF OPERATION

DLP- Direct Low-Pressure Clean Agent Systems are primarily Pre-Engineered Automatic Fire detection and suppression Systems utilising Low-pressure Clean agent FK 5-1-12 (UL Compliant).

The Linear Pneumatic Fire Detection Tubing (LP-FDT) is installed and connected to DLP Valve via double o-ring adaptor attached to the isolation ball valve and routed throughout the protected hazard area/enclosure ending in an End of line adaptor also fitted with double o-rings. Being heat sensitive, the primary function of Linear Pneumatic Fire Detection Tube (under pressure) is to detect heat/fire and activate the valve for discharge of the agent by rupturing at the hottest point along its installed length on flame impingement. On rupture a nozzle is formed at the burst point.



TYPICAL ILLUSTRATION- DLP SYSTEM

Due to loss of the pressure in the tube, the clean agent under pressure, in the cylinder then flows out through the tube and discharged out at burst point/nozzle, extinguishing the fire instantly and flooding the protected enclosure.

Each DLP system consists of a High-Grade Stainless-Steel Direct valve with integrated pressure gauge adaptor on the valve body to monitor cylinder pressure, and a quarter turn isolation valve to interface with the Fire Detection Tubing., and a PRV (Pressure Relief Valve) set to 21-26-Bar is also provided. The systems is supplied complete with SABS approved Cylinders, Brackets is high quality heavy duty. There is also 2 additional 1/4" BSP outlet available for secondary devices like pressure switch or pressure transducers which can be connected to a fire alarm control panel.

FK5-1-12 also have UL Certificate of Compliance.

TECHNICAL SPECIFICATION

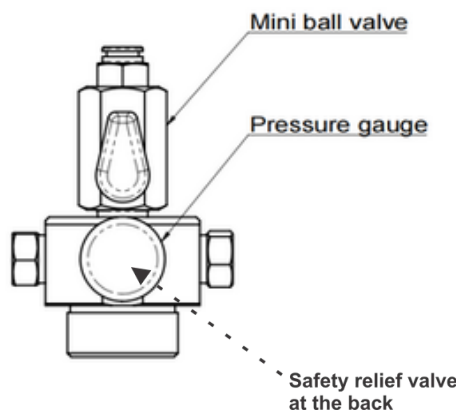
SYSTEM INFORMATION		PERFORMANCE INFORMATION	
AGENT QTY.	CYLINDER VOLUME	OPERATING PRESSURE(@23oC)	MAX VOLUME COVERAGE*
1.3kg/3LBS	1.5L	15 Bar	1m3
2.2kg/5Lbs	2.5L	15 Bar	2m3
3.2kg/7Lbs	4.5L	15 Bar	3m3
4.1kg/9Lbs	4.5L	15 Bar	4m3

Bigger systems available on request.

Figures based on ideal conditions in fully enclosed space. Actual figures may vary according to application. Maximum volume coverage is determined by agent concentration discharged within the enclosure where the fire hazard is located. The discharge time for DLP system utilising various agents differ from agent to agent and capacity of the cylinder.



STAINLESS STEEL 304 DLP VALVE



END OF LINE GAUGE
STAINLESSSTEEL304



PRESSURE GAUGE
28BAR