

Dry Chemical HRD Extinguishers

Explosion Protection System Components

Advantages:

- Discharges dry chemical explosion suppressant in milliseconds.
- Low pressure switch meets NFPA 69 pressure monitoring requirements.
- DOT or Transport Canada (TC) approved construction enables transport while filled and pressurized.
- Sizes available to meet all application requirements.
- Actuator supervised by IEP Technologies control panel for high reliability.
- Field-rechargeable container to reduce recharge costs and downtime.
- Charged with food compatible KIDDEX® - Sodium Bicarbonate chemical suppressant.



Application

The IEP Technologies high rate discharge (HRD) dry chemical extinguisher is designed to discharge suppressant in milliseconds to quench a fireball within a process vessel or to mitigate the propagation of flame through inter-connected ductwork. It is used in conjunction with IEP Technologies range of control panels and detectors. IEP Technologies sophisticated computer modeling techniques determine the number and size of extinguishers to be used. These techniques predict reduced explosion pressures based on actual process conditions and detector settings. Typical applications include explosion protection of enclosed process equipment such as dust collectors, mills, bins, shredders, dryers and other process equipment handling explosive dusts or vapors.

Description

The IEP Technologies dry chemical HRD extinguisher is a spherical refillable container constructed of a high strength steel alloy. It consists of a storage container, fill valve, burst disc valve assembly, safety plate and 30-inch long actuator cable. A lifting ring is provided for ease of handling.

Specifications

Construction: High strength alloy steel with a forged steel mounting flange.

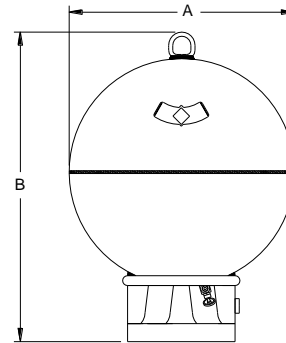
Mounting: Mounting discharge valve down and no more than 20° from the vertical plane.

Mating flange to be 3 in. or 5 in. - 300 # ANSI flat faced with gasket. Mounting bolts to be 5/8-inch (15.9 mm) corrosion resistant high tensile steel.

Actuation: Electrical Actuator PN 32-099932-008 required.

Low Pressure Switch: Normally closed switch opens when container pressure drops to 400 psi.

Dimensions



Sizes	A Inches (mm)	B Inches (mm)
3 Liter	9.0 (229)	14.5 (368)
5 Liter	11.0 (279)	16.5 (419)
10 Liter	13.0 (330)	19.0 (483)
30 Liter	17.0 (432)	23.5 (597)

Ordering Information

Suppression Agent	Size	Part Numbers with LPS		Filled Weight		Agent Weight	
		DOT Approved	TC Approved	Lbs.	Kg.	Lbs.	Kg.
KIDDEX® Sodium Bicarbonate	3 L	32-192096-003	Not Available	45.0	20.4	8.3	3.8
	5 L	32-192097-003	32-192197-003	54.0	24.5	14.9	6.8
	10 L	32-192098-003	32-192198-003	69.0	31.3	25.4	11.6
	30 L	32-192099-003	32-192199-003	121.0	54.9	58.3	26.5
	30 L – 5 in.	32-192090-003	32-192190-003	130.0	59.0	58.3	26.5