

Fire Suppression System Design Specifications

Notes

- A plastic cap which covers the nozzle tip to keep grease, dirt, or foreign material from plugging the orifice.
- The Industrial Dry Chemical Fire Suppression System has been installed in accordance with NFPA 17, NFPA 33, and the local I.M.C. Codes.
- The Industrial Dry Chemical Fire Suppression System has been evaluated by Underwriters Laboratories (UL) in accordance with the specific test protocol found in the UL1254 Standard (Pre-Engineered Dry Chemical System Units).
- All Electric work to be performed by the customer's Licensed Electrician.
- Exhaust Fan - VPSB required to shut down prior to discharge.
- Fire Suppression System to be tied into by the customer's Licensed Fire Alarm Company.
- Fittings are Schedule 40, 150# BMI.
- This Fire Suppression System has been designed so the customer can add additional coverage, if needed, in the future.
- Pipe is Schedule 40, 1" (black, chrome or stainless steel) pipe.
- Pipe is Schedule 40, 3/4" (black, chrome or stainless steel) pipe.
- Piping Requirements: Piping diagrams include limitations on pipe length and fittings. System piping must be balanced. Balanced piping is that in which the difference between the shortest actual pipe length from the 1" tee to the nozzle and the longest actual pipe length from the 1" tee to the nozzle does not exceed 10% of the actual pipe length from tee to nozzle. The number and type of fittings for both tee to nozzle sections must be equal.
- Remote pull station shall be 48" above finished floor and in the path of egress.
- System shall have manual and automatic methods of actuation.
- Upon activation of system all electrical & fuel must shut down.

System Materials

Item Number	Description	Flow	Qty
16172	Total Flood (TF)	9.0	9
16174	Three-Way (3WAY)	2.0	2
16190	Duct and Plenum (DP)	4.0	4
16208	AGENT CYLINDER ASY 6" IS45AB		2
16207	AGENT CYLINDER ASY 6" IS35AB		3
16225	JOB LINK QUICK RESPONSE (200		14
12328	FUSIBLE LINK (360 F / 182 C)		2
16226	JOB LINK QUICK RESPONSE (286		2
12326	FUSIBLE LINK (212 F / 100 C)		1
18001	MRM - Mechanical Release Module		2
11993	Manual Pull Station - English - Recta		2
12856	Nitrogen Cylinder - 10 in(3)		2
10147	Pneumatic Control Head		5
12508	Detector Bracket Assembly - Includes		18
16235	Compression Seal - 3/4" EMT		12
22279	Quick Seal Corner Pulley Adapter - Fi		12
18252	Quick Seal - 1" Pipe		2
16386	Alarm Bell 6" 115 VAC		1
15765	Mechanical Time Delay		2

Total Flow Points: 15.0



Designed & Installed by:
Allstate Fire Company
1030 W 23rd Suite G
Independence, MO 64055

For:
Crash Champions Lees Summit
451 SE Oldham Rd
Lees Summit, MO 64081