CONTROLS FOR HAZARDOUS LOCATIONS

HAZARDOUS LOCATION CLASSIFICATIONS

NEC 500

PROBABILITY OF HAZARDOUS MATERIAL

DIVISION 1	DIVISION 2
Explosive atmosphere is continually or likely present.	Explosive atmosphere is not likely present.

NATURE OF HAZARDOUS MATERIAL

CLASS I — GASES & VAPORS		
DIVISION 1	DIVISION 2	
GROUP A Acetylene		
GROUP B Hydrogen		
GROUP C Ethylene		
GROUP D Propane		
CLASS II — DUST		
DIVISION 1	DIVISION 2	

· '			
CLASS II — DUST			
DIVISION 1	DIVISION 2		
GROUP E Metal Dusts			
GROUP F Carbon-based Dusts			
GROUP G Non-conductive D	Dusts		

CLASS III — FIBERS & FLYINGS

ATEX / IECEX

PROBABILITY OF HAZARDOUS MATERIAL

ZONE 0 / 20	ZONE 1 / 21	ZONE 2 / 22	
Explosive atmosphere is continually present.	Explosive atmosphere is likely present.	Explosive atmosphere is not likely present.	

NATURE OF HAZARDOUS MATERIAL				
G — GASES & VAPORS				
ZONE 1	ZONE 2			
IIC Acetylene & Hydrogen				
IIB+H2 Hydrogen				
IIB Ethylene				
IIA Propane				
D — DUST				
ZONE 21	ZONE 22			
	ZONE 1 & Hydrogen gen D — DUST			

D — DUST				
ZONE 20	ZONE 21	ZONE 22		
IIIC Conductive Dusts				
IIIB Non-conductive Dusts				

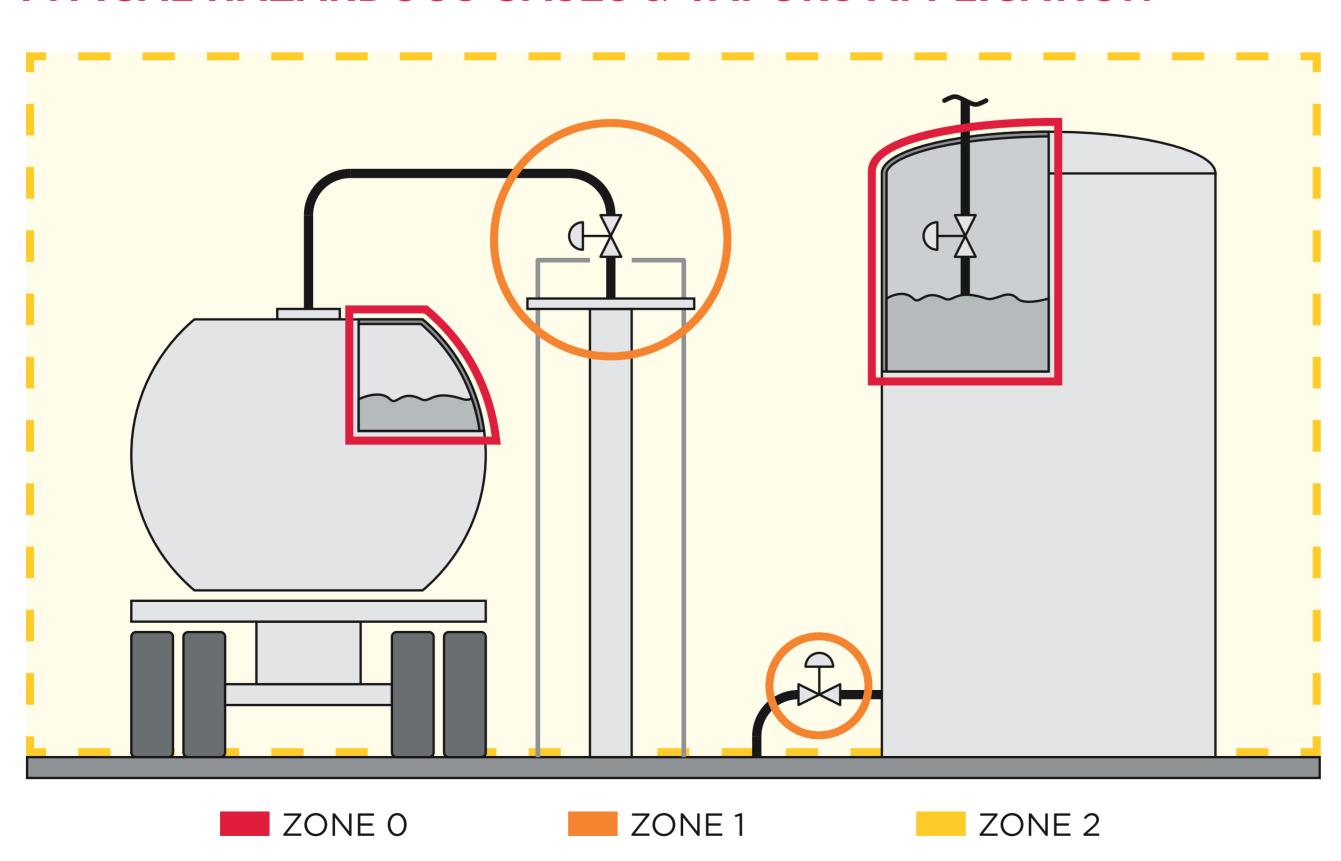
ALTERNATE NORTH AMERICA CLASSIFICATION — NEMA

TYPE 7 | Enclosures constructed for indoor use in hazardous (classified) locations classified as Class I, Division 1, Groups A, B, C, or D as defined in NFPA 70.

IIIA | Fibers

TYPE 9 | Enclosures constructed for indoor use in hazardous (classified) locations classified as Class II, Division 1, Groups E, F, or G as defined in NFPA 70.

TYPICAL HAZARDOUS GASES & VAPORS APPLICATION



EXPLOSION PROOF PRODUCTS¹ **Contains Explosion (Ex d)**



SERIES 70 ELECTRIC ACTUATOR

NEC

CLASS I DIV 1 C,D CLASS II DIV 1 E,F,G



SERIES 6A POSITIONER

NEC

CLASS I DIV 1 A,B,C,D CLASS II/III DIV 1 E,F,G

ATEX/IECEX

G ZONE 1 IIC D ZONE 22 IIIC



SERIES 5C VALVE STATUS MONITOR

NEC

CLASS I DIV 1 A,B,C,D CLASS II DIV 1 E,F,G

ATEX/IECEX

G ZONE 1 IIB+H2 D ZONE 21 IIIC



SERIES 63 SOLENOID

NEC

CLASS I DIV 1 A,B,C,D CLASS II DIV 1 E,F,G

INTRINSICALLY SAFE PRODUCTS^{1,2} **Energy Limited (Ex ia)**



SERIES 6A POSITIONER

NEC

CLASS I DIV 1 A,B,C,D

ATEX/IECEx

G ZONE 1 IIC D ZONE 21 IIIC



SERIES 5A / 5B **VALVE STATUS MONITOR**

NEC

CLASS I DIV 1 A,B,C,D CLASS II/III DIV 1 E,F,G ATEX/IECEx

G ZONE 0 IIC

SERIES 60 SOLENOID NEC

CLASS I DIV 1 A,B,C,D CLASS II DIV 1 E,F,G



SERIES 54 PROXIMITY SENSOR

CLASS I DIV 1 A,B,C,D CLASS II DIV 1 E,F,G

ATEX/IECEX G ZONE O IIC

NON-SPARKING PRODUCTS¹ No Arcs/Sparks (Ex nA)



SERIES 54 PROXIMITY SENSOR ATEX/IECEX

G ZONE 2 IIC D ZONE 22 IIIC

NOTES:

- 1 For full rating specifications, see product literature.
- 2 Order with appropriate intrinsically safe barrier.