



**GLOBAL VALVE
& CONTROLS**



CLASS I & CLASS II HAZARDOUS MATERIALS

The National Electric Code (NEC) classifies potentially hazardous areas by Class, Division, and Group. The Class defines the overall type of hazard present. The Division defines the likelihood of that hazard being present in the area in questions, and the Group defines equipment found in the hazardous area. An example of such a rating is Class I, Division I, Group C. The NEC rating system is shown in the charts below:

CLASS I GASES AND VAPORS		CLASS II FLAMMABLE DUST	
<p>Division 1 <i>Flammable gases or vapors may be present:</i></p> <ul style="list-style-type: none"> Under standard operating conditions During repair, maintenance or leakage of equipment, which could cause electrical failure During breakdown or faulty operation of equipment, which could cause electrical failure 	<p>Division 2 <i>Flammable gases or vapors may be present:</i></p> <ul style="list-style-type: none"> Accidental rupture/breakdown of enclosed equipment During breakdown or failure of venting equipment At a location near Division 1 environments where vapors might possibly migrate 	<p>Division 1 <i>Finely pulverized material, suspended in the atmosphere:</i></p> <ul style="list-style-type: none"> Under standard operating conditions During repair, maintenance or leakage of equipment During breakdown or faulty operation of equipment, which could cause electrical failure 	<p>Division 2 <i>Finely pulverized material, suspended in the atmosphere:</i></p> <ul style="list-style-type: none"> Accidental rupture/breakdown of enclosed equipment During breakdown or failure of venting equipment At a location near Division 1 environments where vapors might possibly migrate
<p>Group A Acetylene</p>		<p>Group E Metal dust</p>	
<p>Group B Hydrogen or fuel and combustible process of gases containing more than 30% hydrogen or equivalent hazards such as acrolein, butadiene, ethylene oxide and propylene oxide</p>		<p>Group F Carbon black, coal</p>	
<p>Group C Cyclopropane, ethyl ether, ethylene, or equivalent hazards</p>		<p>Group G Flour, starch, grain, combustible plastic or chemical dust</p>	
<p>Group D Acetone, ammonia, benzene, butane, ethanol, gasoline, hexane, methanol, methane, natural gas, naphta, propane, or equivalent hazards</p>			



NEC ELECTRICAL CLASSIFICATION

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