S.C.SABA ENG CO.
Designer and Manufacturer of Overhead, Jib, Gantry and Explosion proof Cranes
شرکت مهندسی سدید کاران صبا

ATEX ZONE VERSUS REQUIRED EQUIPMENT

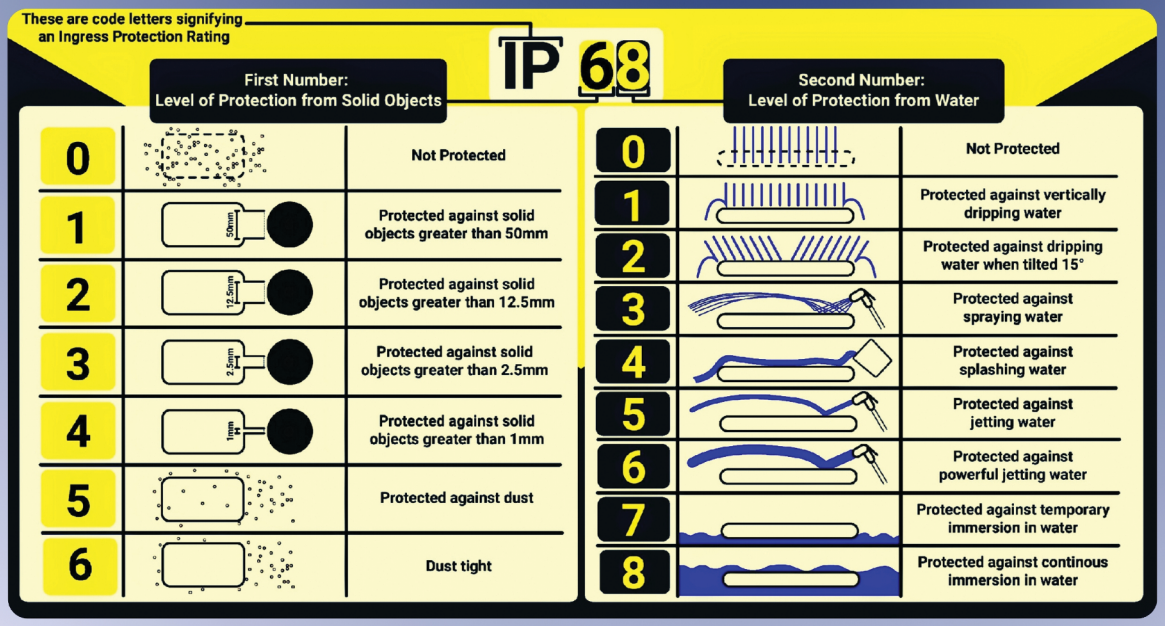
ATEX Zone			Equipment			
Zone: a place in which an explosive atmosphere is...	ATEX Zone		Level of protection is assured in...	Category	Marking	
	Gases	Dusts			Gases	Dusts
continually present	0	20	the event of two faults occurring indepen-dently of each other	1	Ex II 1G	Ex II 1D
likely to occur in normal operation occasionally	1	21	the event of one equipment fault	2	Ex II 2G	Ex II 2D
not likely to occur in normal operation and only for very short durations	2	22	normal operation	3	Ex II 3G	Ex II 3D

CLASSIFICATION OF GASES AND VAPORS IN EXPLOSION GROUPS AND TEMPERATURE CLASSES

Explosion group (only relevant for EExd)	Temperature class and ignition temperature					
	T1 450°C	T2 450° - 300°C	T3 300° - 200°C	T4 200° - 135°C	T5 135° - 100°C	T6 100° - 85°C
II A MESG[1] > 0.9 mm	Acetone Ethane Ethylchloride Ammonia Benzol Acetic acid Carbon dioxide Methane Methanol Methylchloride Propane Toluene	i-Amylacetate n-Butane n-Buthylalcohol Cyclo-hexanon 1,2-Dichloro-ethane Acetic anhydrid	Petroleum products Fuels for internal combustion and diesel enginers Jet fuels Heating oils n-Hexane	Acetaldehyd		
II B 0.5mm ≤ MESG ≤ 0.9mm	Town gas	Ethylalcohol Ethylene Ethylene oxide	Hydrogen sulfide	Ethyl ether		
II C MESG < 0.5mm	Hydrogen	Acetylene				Carbon disulfide

1) MESG (Maximum Experimental Safe Gaps)

INGRESS PROTECTION (IP) RATINGS, RESISTANCE GRADE OF AN ENCLOSURE AGAINST THE INTRUSION OF DUST OR LIQUIDS



+98 21 44000 506-8 www.sabacrane.com Info@sabacrane.com