

EX-PROOF CABLE PLUGS, SOCKETS and OTHER FITTINGS



INTRODUCTION

Explosion-proof plugs and sockets can be utilized in any place with a potentially explosive atmosphere, however they cannot be used with industrial type plugs. The electrical fittings enable the construction of a full electrical pipe system. Three-piece unions for gas groups IIB and IIC allow for independent rotation and connection between pipes of electrical equipment and enclosures or various explosion-proof equipment devices. Reducers and adaptors are used to connect equipment, enclosures, pipes, and hubs of various sizes and threads, whilst plugs are used to shut pipe ends and are built with hex socket heads to guarantee the opening is only accessible with appropriate tools. The range is completed by open elbows, sealing fittings, nipples, couplings, rigid and flexible tubes.

ADVANTAGES

- Less power consumption-energy saving
- Long service life-maintenance-free
- Strong safety
- Conducive to environmental protection

APPLICATION

- Chemistry Plants
- Paint Plants
- Oil Storage Facility
- Energy Plant
- Harbour and Shipyard
- Oil Filling Plants
- Industrial Areas
- Fuel-Oil Station and Gasoline Storage
- Dry Cleaning Plants
- Spray Finishing Areas
- Aircraft Hangars

TYPES

- Ex-Proof Sockets
- Ex-Proof Plugs
- Ex-Proof Sockets with Circuit Breaker
- Ex-Proof Drain and Breather Valve
- Ex-Proof Sealing Nipples and Bushings
- Ex-Proof Electrical Fittings
- Ex-Proof Flexible Conduits
- Ex-Proof Rigid Conduits



Ex-Proof Sockets

Cable sockets with an interlocking disconnecting switch are suited for any explosive environment. They cannot be used in conjunction with industrial plugs. The colour of the ring identifies the rated voltage.

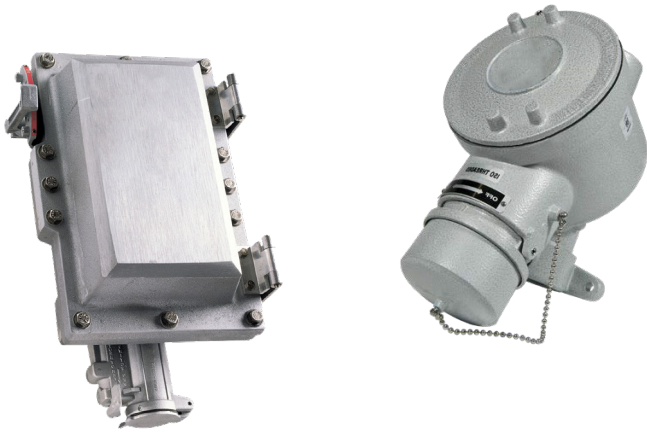
EPC and EPRC connections, with voltage ranges ranging from 63A to 125A, are ideal for power welding equipment, compressors, generators, and big mobile equipment in general. Only when the plug is inserted can the circuit breaker be closed, and only when the circuit breaker is in the "open" position can the plug be retrieved.



Ex-Proof Plugs

Ex-proof plugs are moveable connectors attached to electrically powered devices, with the socket fixed to equipment or a building structure and linked to an activated electrical circuit. The plug is a male connection with protruding pins that correspond to the holes and female contacts in a socket. Ex-proof plugs and socket-outlets are products designed for potentially explosive atmospheres.





Ex-Proof Sockets with Circuit Breaker

Sockets with automatic circuit breakers are available in two or three pole types with an earth connection. When the plug is inserted, it activates the internal circuit breaker, which powers up the device. This technique prevents arcs from forming between plugs and socket cavities and pins. The body, cover, and external handle's material is aluminium alloy with a low copper concentration.

Ex-Proof Drain and Breather Valve

Breather drains enable pressure compensation between enclosures and surrounding atmosphere, thereby minimizing moisture build-up caused by temperature fluctuation and humid environments. Furthermore, they effectively drain any condensed water present within the device.



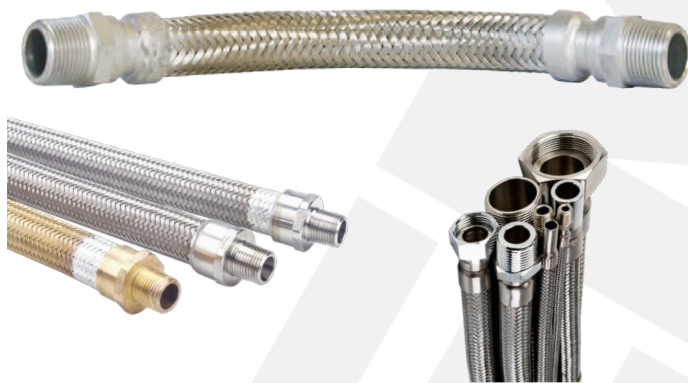
Ex-Proof Sealing Nipples and Bushing

Sealing nipples and bushings are used to interconnect ex-proof enclosures. The cables are sealed through a bi-component resin set around each conductor.



Ex-Proof Electrical Fittings

Electrical fittings are components of full electrical pipe systems. Three-piece unions for gas groups IIb and IIC allow for independent rotation and connection between pipes of electrical equipment and enclosures or various ex-proof equipment devices. Reducers and adaptors are used to connect equipment, enclosures, pipes, and hubs of various sizes and threads, whilst plugs are used to shut pipe ends and are built with hex socket heads to guarantee the opening is only accessible with appropriate tools. The range is completed by open elbows, sealing fittings, nipples, couplings, rigid and flexible tubes.



Ex-Proof Flexible Conduits

Ex-proof flexible conduits are used to connect offset equipment or devices subject to vibrations such as electrical motors. They are also useful for lighting fixture installation and as an alternative to rigid conduits when rigid conduits are difficult to install. Ex-proof flexible conduits are incredibly flexible and have a very good vibration dampening effect.

Ex-Proof Rigid Conduits

Rigid metal conduit, or RMC, is galvanized steel tube with threaded fittings that is installed. It's generally used outside to shield electrical wires, panels, and other equipment from damage, and it can also offer structural support.

