

Provides an equipotential bond under transient overvoltage conditions between different earthing systems which normally need to be isolated for noise reductions or security requirements

- ◆ **Exceptional high surge rating**
- ◆ **Different clamping voltage to choose**
- ◆ **High insulation resistance under normal condition**
- ◆ **Long life and maintenance free**
- ◆ **Robust and waterproof enclosure**
- ◆ **Simple installation**



**Exceptional high surge rating -** EPP series of equipotential protector has different surge rating for different requirements. It has the 150KA model to meet exceptional high surge rating demand in any severe lightning environment.

**Different clamping voltage to choose -** A variety of clamping voltage from 90V to 1000V are available for different requirements.

**High insulation resistance under normal condition -** In some circumstances, separate earthing systems are founded due to regulatory or special requirements. In such cases, the signal, power and protective earth are separated thus become a potential cause of equipment malfunction and damage due to great earth potential difference during lightning strike. EPP protector is the solution which consists of a high capacity gas arrester which has a 1G ohm resistance under normal condition and thus exhibits an open circuit with low capacitance.

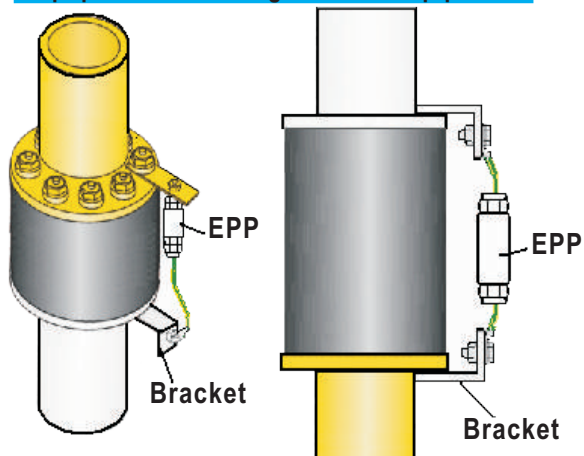
**Long life and maintenance free -** The EPP protector uses very high performance gas filled arrester which will momentarily conduct and connecting the separate earths together should there be a difference in earth potential. After the impulses, it will reset automatically and return to its open circuit state. It is totally maintenance free and can withstand more than 10000 operations thus guarantee a long working life.

**Robust and waterproof enclosure -** EPP protector is housed in a robust and waterproof POM enclosure and can be used in any harsh environment.

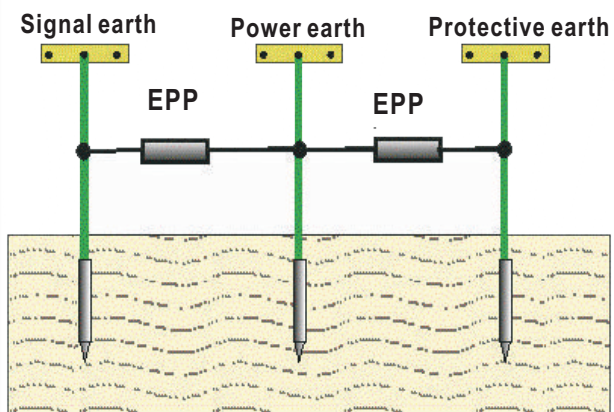
**Simple installation -** The compact, in-line and simple installation enables it to be easily bonded to the existing earthing systems.

## Installation

### Equipotential bonding for isolated pipelines

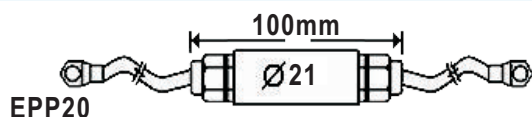


### Connect to multiple earths

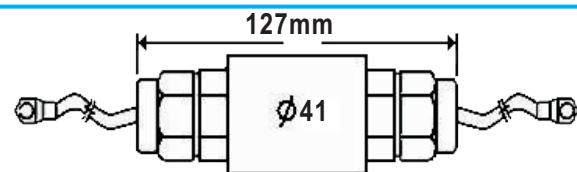


For detail installation requirements, pls refer to relevant user manual.

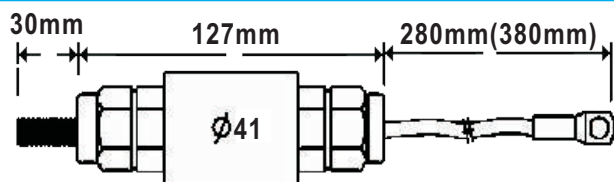
## Dimensions



EPP20



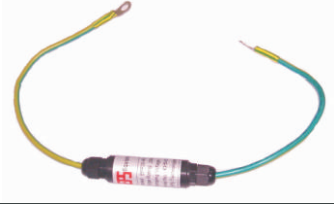






EPP40(60)(100)







EPP40(60)(100) with M8 screw thread on one side

## General Specifications

|  |   |
|--|---|
| DC sparkover voltage:                      | 90-350V(see ordering information)   |
| Voltage tolerance:                         | ±20%  |
| Max. discharge current, I <sub>max</sub> : | 20-150KA(see ordering information)  |
| Impulse sparkover voltage:                 | <600V (1KV/μs)  |
| Capacitance:                               | <10pF   |
| Insulation resistance:                     | >1G Ω   |
| Standards compliance:                      | BS EN/IEC 61643-11<br>AS1768-2007 Cat.A.B.C<br>CP33-1996 Cat.A.B.C<br>IEEE C62.41 Cat.A.B.C |
| Termination:                               | Flying leads  |
| Case material:                             | POM   |
| IP rating:                                 | IP65  |
| Operating temperature, T <sub>u</sub> :    | -40-85°C  |
| Humidity:                                  | 0-95%(R.H.)   |
| Altitude:                                  | 0-3650m   |
| Weight:                                    | EPP20 68g<br>EPP40 240g<br>EPP65 240g<br>EPP100 240g  |

| MODEL               | PRODUCT DESCRIPTION   | PHOTO/DRAWING   |
|---------------------|---|---|
| <b>EPP20-90</b>     | 20KA, 90V, equipotential protector                          |    |
| <b>EPP20-230</b>    | 20KA, 230V, equipotential protector                         |   |
| <b>EPP20-350</b>    | 20KA, 350V, equipotential protector                         |   |
| <b>EPP20-600</b>    | 20KA, 600V, equipotential protector                         |   |
| <b>EPP40-230</b>    | 40KA, 230V, equipotential protector                         |    |
| <b>EPP40-350</b>    | 40KA, 350V, equipotential protector                         |   |
| <b>EPP40-600</b>    | 40KA, 600V, equipotential protector                         |   |
| <b>EPP65-230</b>    | 65KA, 230V, equipotential protector                         |    |
| <b>EPP65-350</b>    | 65KA, 350V, equipotential protector                         |   |
| <b>EPP65-600</b>    | 65KA, 600V, equipotential protector                         |   |
| <b>EPP100-230</b>   | 100KA, 230V, equipotential protector                        |   |
| <b>EPP100-350</b>   | 100KA, 350V, equipotential protector                        |   |
| <b>EPP100-600</b>   | 100KA, 600V, equipotential protector                        |   |
| <b>EPP40-230/B</b>  | 40KA, 230V, equipotential protector, one side with M8 bolt  |  |
| <b>EPP40-350/B</b>  | 40KA, 350V, equipotential protector, one side with M8 bolt  |   |
| <b>EPP40-600/B</b>  | 40KA, 600V, equipotential protector, one side with M8 bolt  |   |
| <b>EPP65-230/B</b>  | 65KA, 230V, equipotential protector, one side with M8 bolt  |  |
| <b>EPP65-350/B</b>  | 65KA, 350V, equipotential protector, one side with M8 bolt  |   |
| <b>EPP65-600/B</b>  | 65KA, 600V, equipotential protector, one side with M8 bolt  |   |
| <b>EPP100-230/B</b> | 100KA, 230V, equipotential protector, one side with M8 bolt |  |
| <b>EPP100-350/B</b> | 100KA, 350V, equipotential protector, one side with M8 bolt |   |
| <b>EPP100-600/B</b> | 100KA, 600V, equipotential protector, one side with M8 bolt |   |

| MODEL  | PRODUCT DESCRIPTION   | PHOTO/DRAWING   |
|--|---|---|
| MB-1-1/2   | Stainless Steel, angled mounting bracket for flange with bolt size 1-1/2"   |  |
| MB-1-1/2   | Stainless Steel, straight mounting bracket for flange with bolt size 1-1/2" |  |
| MB-1-1/4   | Stainless Steel, angled mounting bracket for flange with bolt size 1-1/4"   |  |
| MB-1-1/4   | Stainless Steel, straight mounting bracket for flange with bolt size 1-1/4" |  |
| <p align="center"><i>* Other clamping voltages are available on request.</i></p> |   |   |
| <p align="center"><i>* Other mounting bolt sizes available on request</i></p>    |   |   |

