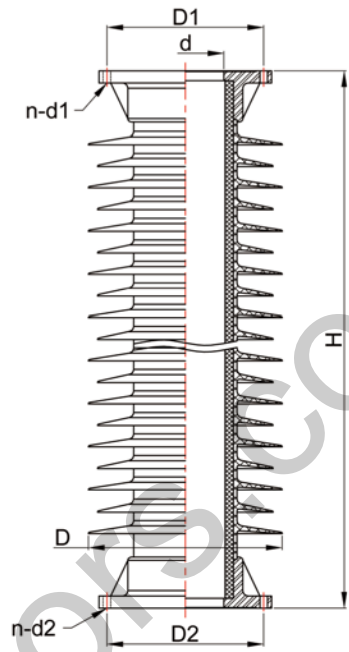




■ FIG 5.1

## 5 Composite Hollow Insulators

| Rated voltage<br>kV | Type         | Figure.<br>No | Main Dimensions |         |         | Top flange |          | Bottom flange |          | Creepage distance<br>mm |
|---------------------|--------------|---------------|-----------------|---------|---------|------------|----------|---------------|----------|-------------------------|
|                     |              |               | H<br>mm         | D<br>mm | d<br>mm | n-d1       | D1<br>mm | n-d2          | D2<br>mm |                         |
| 40.5                | HFB-40.5/20  | 5.1           | 600             | 350/318 | 200     | 4-Φ 18     | 284      | 4-Φ 18        | 284      | 1499                    |
|                     | HFB-40.5/30  |               | 600             | 398     | 240     | 6-Φ 18     | 385      | 6-Φ 18        | 385      | 1256                    |
| 72.5                | HFB-72.5/11  |               | 820             | 243     | 130     | 6-Φ 14     | 240      | 6-Φ 14        | 240      | 1813                    |
|                     | HFB-72.5/31  |               | 800             | 360     | 200     | 12-Φ 13.5  | 335      | 12-Φ 13.5     | 335      | 2248                    |
| 126                 | HFB-126/15   |               | 1350            | 360     | 130/202 | 8-Φ 12     | 220      | 8-Φ 14        | 315      | 4158                    |
|                     | HFB-126/25   |               | 1306            | 400/368 | 220     | 12-Φ 13    | 396      | 12-Φ 13       | 396      | 3150                    |
|                     | HFB-126/15   |               | 1315            | 375/345 | 190     | 12-Φ 11    | 354      | 12-Φ 11       | 354      | 4410                    |
|                     | HFB-126/20   |               | 1330            | 350/318 | 200     | 16-Φ 14    | 328      | 16-Φ 14       | 328      | 3906                    |
|                     | HFB-126/16.5 |               | 1480            | 410/380 | 240     | 12-M10     | 280      | 12-M10        | 280      | 2520                    |
|                     | HFB-126/20   |               | 1320            | 357     | 102/195 | 8-Φ 11     | 220      | 8-Φ 14        | 330      | 3906                    |
|                     | HFB-126/12.5 |               | 1400            | 281     | 154     | 8-Φ 18     | 250      | 8-Φ 18        | 250      | 3906                    |
|                     | HFB-126/25   |               | 1360            | 360     | 200     | 12-Φ 14    | 335      | 12-Φ 14       | 335      | 3906                    |
|                     | HFB-126/25   |               | 1200            | 406     | 248     | 16-Φ 18    | 385      | 16-Φ 18       | 385      | 3906                    |
|                     | HFB-145/12.5 |               | 1500            | 281     | 154     | 16-Φ 12    | 250      | 16-Φ 12       | 250      | 4495                    |
| 145                 | HFB-145/20   |               | 1500            | 357     | 102/195 | 8-Φ 11     | 220      | 8-Φ 14        | 330      | 4495                    |
|                     | HFB-145/25   |               | 1500            | 360     | 200     | 12-Φ 14    | 335      | 12-Φ 14       | 335      | 4495                    |
|                     | HFB-145/22.5 |               | 1700            | 340/310 | 210     | 12-M12     | 310      | 12-M12        | 310      | 5800                    |
|                     | HFB-145/20   |               | 1840            | 285/250 | 113     | 8-M10      | 210      | 8-M10         | 210      | 5655                    |
| 170                 | HFB-170/12.5 |               | 1732            | 281     | 154     | 16-Φ 12    | 250      | 16-Φ 12       | 250      | 5270                    |
|                     | HFB-170/22.5 |               | 1995            | 377/347 | 180     | 12-M12     | 285      | 12-M12        | 285      | 5950                    |
| 245/252             | HFB-252/55   |               | 2400            | 475     | 180/330 | 8-Φ 14     | 310      | 12-Φ 18       | 500      | 7595/7812               |
|                     | HFB-252/45   |               | 2260            | 470     | 300     | 16-Φ 14    | 370      | 16-Φ 14       | 370      | 7595/7812               |
|                     | HFB-252/85   |               | 2336            | 546     | 375     | 16-Φ 18    | 560      | 16-Φ 18       | 560      | 7595/7812               |
|                     | HFB-252/10   |               | 2206            | 470/436 | 300     | 12-M18     | 379      | 12-M12        | 379      | 5635/5796               |



Composite Hollow Insulators

## 5 Composite Hollow Insulators

| MML  | SML  | Routine withstand load<br>of inner pressure | Specified withstand load<br>of inner pressure | Standard  |
|------|------|---------------------------------------------|-----------------------------------------------|-----------|
| kN,m | kN,m | Mpa                                         | Mpa                                           |           |
| 8.0  | 20.0 | 0.8                                         | 3.2                                           | IEC 61462 |
| 12.0 | 30.0 | 0.8                                         | 3.2                                           |           |
| 3.5  | 8.8  | 1.0                                         | 4.0                                           |           |
| 10.0 | 25.0 | 0.8                                         | 3.2                                           |           |
| 10.5 | 15.0 | 0.8                                         | 1.6                                           |           |
| 12.5 | 25.0 | 1.5                                         | 6.0                                           |           |
| 6.0  | 15.0 | 0.8                                         | 3.2                                           |           |
| 10.0 | 20.0 | 0.7                                         | 2.6                                           |           |
| 6.5  | 16.5 | 1.0                                         | 4.0                                           |           |
| 8.0  | 20.0 | 1.0                                         | 4.0                                           |           |
| 5.0  | 12.5 | 1.0                                         | 4.0                                           |           |
| 10.0 | 25.0 | 1.0                                         | 4.0                                           |           |
| 10.0 | 25.0 | 1.0                                         | 4.0                                           |           |
| 5.0  | 12.5 | 1.0                                         | 4.0                                           |           |
| 8.0  | 20.0 | 1.0                                         | 4.0                                           |           |
| 10.0 | 25.0 | 1.0                                         | 4.0                                           |           |
| 9.0  | 22.5 | 1.0                                         | 4.0                                           |           |
| 10.0 | 20.0 | 1.0                                         | 4.0                                           |           |
| 5.0  | 12.5 | 0.8                                         | 3.2                                           |           |
| 9.0  | 22.5 | 1.0                                         | 4.0                                           |           |
| 22.0 | 55.0 | 1.0                                         | 4.0                                           |           |
| 18.0 | 45.0 | 1.0                                         | 4.0                                           |           |
| 34.0 | 85.0 | 0.8                                         | 3.2                                           |           |
| 4.0  | 10.0 | 1.0                                         | 4.0                                           |           |