

Dalian Hivolt

POWER SYSTEM

NOTES:

- 1. Surfaces coated with semi-conductive glaze considered as effective leakage surfaces and the distance over them is included in the leakage distance.



3.1 Pin type insulators ANSI C29.5

| ANSI class | | Unit | 55-1 | | 55-2 | |
|------------------------------------|----------------------------|--------|------------|-------------|-------|-------------|
| Figure No. | | | 3.1.1 | | 3.1.2 | |
| Insulator type | | | Plain | Radio Freed | Plain | Radio Freed |
| Neck Designation | | | C | | C | |
| Rating Voltage (U.S.Practice) | | kV | 7.2 | | 7.2 | |
| Creepage distance | | inches | 4 | | 5 | |
| Dry-arcing distance | | inches | 2-1/4 | | 3-3/8 | |
| Dimensions | H | inches | 2-7/8 | | 3-1/4 | |
| | D | inches | 3-1/4 | | 3-3/4 | |
| | D2 | inches | 2-1/4 | | 2-1/4 | |
| | R | inches | 1/2 | | 5/8 | |
| | R2 | inches | / | | 5/8 | |
| Cantilever strength | | pounds | 3000 | | 2500 | |
| Low-frequency flashover voltage | dry | kV | 35 | 35 | 50 | 45 |
| | wet | kV | 20 | 20 | 25 | 25 |
| Critical impulse flashover voltage | positive | kV | 50 | 50 | 75 | 70 |
| | negative | kV | 70 | 70 | 95 | 85 |
| Low-frequency puncture voltage | | kV | 50 | | 70 | |
| Radio-Influence Voltage Data | test voltage,rms to ground | kV | 5 | 5 | 5 | 5 |
| | maximum RIV at 1000kHz | μ V | 2500 | 50 | 2500 | 50 |
| Net weight | | pounds | 1.2 | | 1.4 | |
| Applicable Standard | | | ANSI C29.5 | | | |

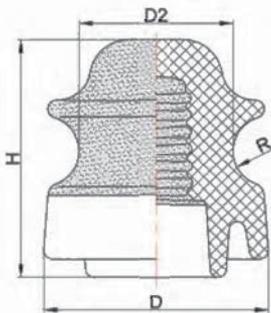


FIG 3.1.1

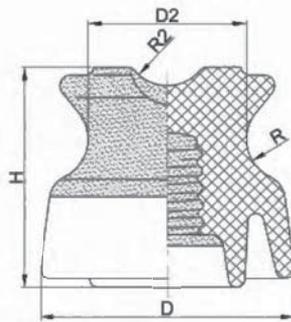


FIG 3.1.2

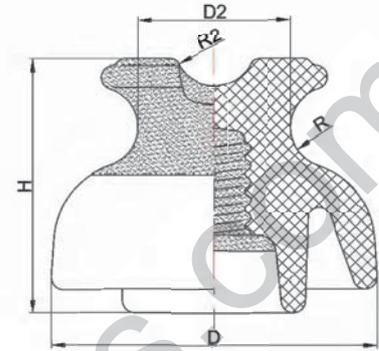
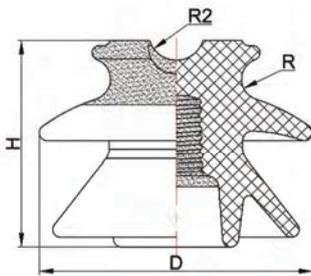


FIG 3.1.3

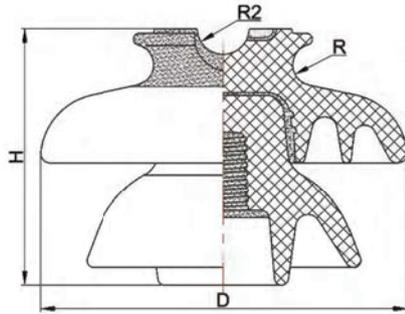
3.1 Pin type insulators ANSI C29.5

| 55-3 | | 55-4 | | 55-5 | | 55-6 | | 55-7 | |
|------------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|-------------|
| 3.1.3 | | | | | | | | | |
| Plain | Radio Freed | Plain | Radio Freed | Plain | Radio Freed | Plain | Radio Freed | Plain | Radio Freed |
| C | | F | | F | | J | | J | |
| 13.2 | | 13.2 | | 13.2 | | 15/25 | | 15/25 | |
| 7 | | 9 | | 12 | | 15 | | 15 | |
| 4-1/2 | | 5 | | 6-1/4 | | 8 | | 8 | |
| 3-3/4 | | 4-3/8 | | 4-7/8 | | 5-1/2 | | 5-1/2 | |
| 4-3/4 | | 5-1/2 | | 7 | | 8-3/8 | | 8-3/8 | |
| 2-1/4 | | 2-7/8 | | 2-7/8 | | 3-1/2 | | 3-1/2 | |
| 9/16 | | 9/16 | | 9/16 | | 5/8 | | 5/8 | |
| 9/16 | | 1 | | 1 | | 1 | | 1 | |
| 2500 | | 3000 | | 3000 | | 3000 | | 3000 | |
| 65 | 55 | 70 | 65 | 85 | 80 | 100 | | 100 | |
| 35 | 30 | 40 | 35 | 45 | 45 | 50 | | 50 | |
| 100 | 90 | 110 | 105 | 140 | 130 | 150 | | 150 | |
| 130 | 110 | 140 | 130 | 170 | 150 | 170 | | 170 | |
| 90 | | 95 | | 115 | | 135 | | 135 | |
| 10 | 10 | 10 | 10 | 15 | 15 | 22 | 22 | 22 | 22 |
| 5500 | 50 | 5500 | 50 | 8000 | 100 | 8000 | 100 | 8000 | 100 |
| 2.4 | | 3.7 | | 6.4 | | / | | / | |
| ANSI C29.5 | | | | | | | | | |

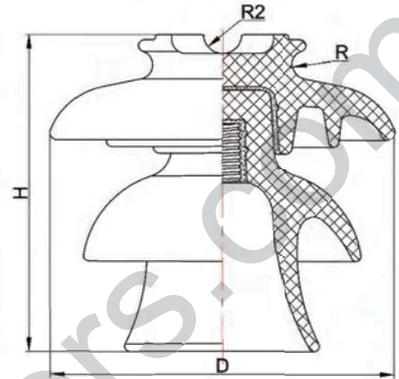
POWER SYSTEM



▪ FIG 3.2.1



▪ FIG 3.2.2



▪ FIG 3.2.3

3.2 Pin type insulators ANSI C29.6

| ANSI class | Unit | | 56-1 | 56-2 | 56-3 | 56-4 | 56-5 |
|------------------------------------|----------------------------|--------|------------|-------|--------|--------|--------|
| Figure No. | | | 3.2.1 | 3.2.2 | | 3.2.3 | |
| Neck Designation | | | J | K | K | / | / |
| Voltage Rating (U.S.Practice) | kV | | 23 | 23 | 34.5 | 46 | 69 |
| Creepage distance | inches | | 13 | 17 | 21 | 27 | 34 |
| Dry-arcing distance | inches | | 7 | 8-1/4 | 9-1/2 | 11-1/4 | 14 |
| Main dimensions | H | inches | 5-3/4 | 6-1/2 | 7-1/2 | 9-1/2 | 12-1/2 |
| | D | inches | 7-1/2 | 9 | 10-1/2 | 12 | 13-1/2 |
| | R | inches | 9/16 | 9/16 | 9/16 | 9/16 | 9/16 |
| | R2 | inches | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| Cantilever strength | pounds | | 2500 | 3000 | 3000 | 3000 | 3000 |
| Low-frequency flashover voltage | dry | kV | 95 | 110 | 125 | 140 | 175 |
| | wet | kV | 60 | 70 | 80 | 95 | 125 |
| Critical impulse flashover voltage | positive | kV | 150 | 175 | 200 | 225 | 270 |
| | negative | kV | 190 | 225 | 265 | 310 | 340 |
| Low-frequency puncture voltage | kV | | 130 | 145 | 165 | 185 | 225 |
| Radio-Influence Voltage Data | test voltage,rms to ground | kV | 15 | 22 | 30 | 30 | 44 |
| | maximum RIV at 1000kHz | μ V | 100 | 100 | 200 | 200 | 200 |
| Net weight | pounds | | 7.7 | 11.0 | 17.6 | 24.3 | 30.9 |
| Applicable Standard | | | ANSI C29.6 | | | | |