



Porcelain Suspension Insulator

Overall Dimensions

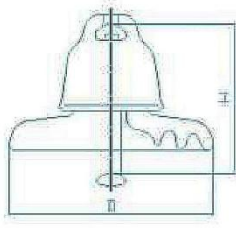


Fig 1

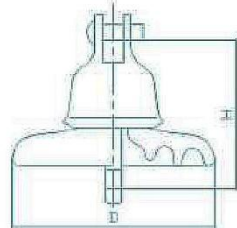


Fig 2

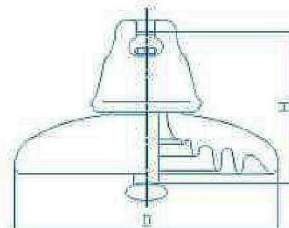


Fig 3

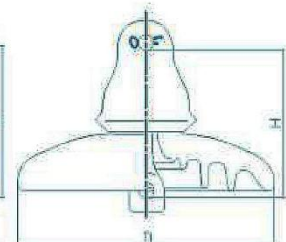


Fig 4

IEC Standard Type Suspension insulators

Fig.No.	1	2	3	4	3	3
Type No.	XP-40	XP-40C	XP-70	XP-70C	XP-80	XP-100
IEC Class	U40B	U40C	U70BL	U70C	U80BL	U100BL
Coupling Size	16	16C	16	16C	16	16
Dimensions						
Diameter(D)/mm	190	190	255	255	255	255
Spacing(H)/mm	140	140	146	146	146	146
Creepage distance/mm	200	200	320	320	320	320
Mechanical Values						
Combined M&E strength /kN	40	40	70	70	80	100
Impact Strength/nm	5	5	6	6	7	7
Routine proof test load/kn	20	20	35	35	40	50
Electrical Values						
Power frequency dry withstand Voltage/kV	55	55	70	70	70	70
Power frequency Wet withstand Voltage/kV	30	30	40	40	40	40
Dry lightning impulse withsatnd Voltage/kV	75	75	100	100	100	100
Power frequency puncture voltage/kV	90	90	110	110	110	110
Radio Influence Voltage Data						
Radio Influence Voltage Data/kV	7.5	7.5	10	10	10	10
Test Voltage RMS to Ground/uV	50	50	50	50	50	50
Net Weight,approximate/kg	2.8	2.9	4.7	4.8	5.0	5.3

Overall Dimensions

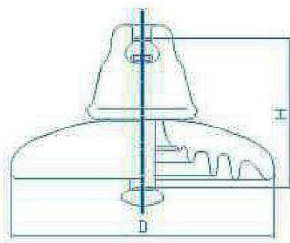


Fig 1

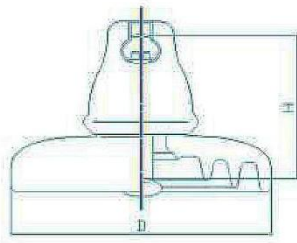


Fig 2

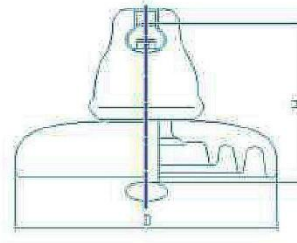


Fig 3

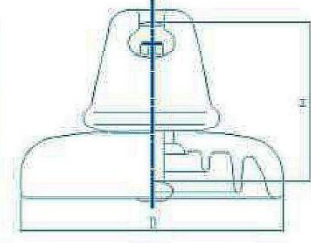


Fig 4

IEC Standard Type Suspension Porcelain insulators

Fig.No.	1	2	3	3	3	4
Type No.	XP-120	XP1-160	XP2-160	XP-210	XP-240	XP-300
IEC Class	U120B	U160BM	U160BL	U210B	U240B	U300B
Coupling Size	16	20	20	20/24	24	24
Dimensions						
Diameter(D)/mm	255	280	280	280	280	320
Spacing(H)/mm	146	155	170	170	170	195
Creepage distance/mm	320	350	380	380	405	390
Mechanical Values						
Combined M&E strength /kN	120	160	160	210	240	300
Impact Strength/nm	10	10	10	11.3	11.3	11.3
Routine proof test load/kN	60	80	80	105	120	150
Electrical Values						
Power frequency dry withstand Voltage/kV	70	75	75	75	75	75
Power frequency Wet withstand Voltage/kV	40	42	42	42	45	45
Dry lightning impulse withsatnd Voltage/kV	100	110	110	110	110	130
Power frequency puncture voltage/kV	110	110	110	120	120	130
Radio Influence Voltage Data						
Radio Influence Voltage Data/kV	10	10	10	10	10	10
Test Voltage RMS to Ground/uV	50	50	50	50	50	50
Net Weight, approximate/kg	5.6	7.4	7.8	10.4	11.1	14.3

Overall Dimensions

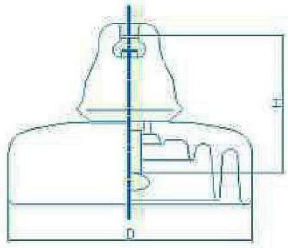


Fig 1

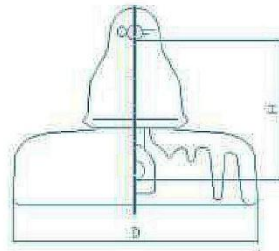


Fig 2

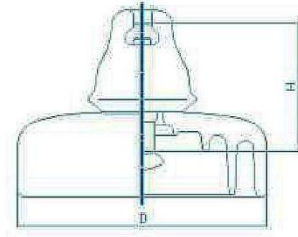


Fig 3

IEC Fog Type Suspension Porcelain insulators

Fig.No.	1	2	1	1	3	1
Type No.	XHP-70	XHP-70C	XHP-80	XHP-100	XHP1-120	XHP2-120
IEC Class	U70BLP	U70CP	U80BLP	U100BLP	U120BP1	U120BP2
Coupling Size	16	16C	16	16	16	16
Dimensions						
Diameter(D)/mm	255	255	255	255	255	280
Spacing(H)/mm	146	146	146	146	146	146
Creepage distance/mm	432	432	432	432	450	432
Mechanical Values						
Combined M&E strength /kN	70	70	80	100	120	120
Impact Strength/nm	6	6	7	7	10	10
Routine proof test load/kn	35	35	40	50	60	60
Electrical Values						
Power frequency dry withstand Voltage/kV	80	80	80	80	80	80
Power frequency Wet withstand Voltage/kV	42	42	42	42	42	42
Dry lightning impulse withsatnd Voltage/kV	120	120	120	120	120	120
Power frequency puncture voltage/kV	120	120	120	120	120	120
Radio Influence Voltage Data						
Radio Influence Voltage Data/kV	10	10	10	10	10	10
Test Voltage RMS to Ground/uV	50	50	50	50	50	50
Net Weight, approximate/kg	6.1	6.3	6.5	7.9	8.5	8.2

Overall Dimensions

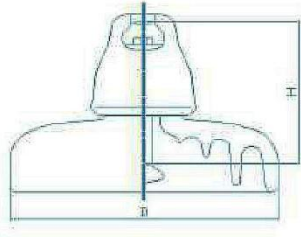


Fig 1

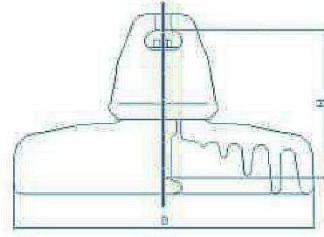


Fig 2

IEC Fog Type Suspension Porcelain insulators

Fig.No.	1	1	2	2	2	2
Type No.	XHP-160	XHP1-160	XHP2-160	XHP-210	XHP-240	XHP-300
IEC Class	U160BP	U160BSP	U160BLP	U210BP	U240BP	U300BP
Coupling Size	20	20	20	20/24	24	24
Dimensions						
Diameter(D)/mm	330	330	330	330	330	360
Spacing(H)/mm	155	146	170	170	170	195
Creepage distance/mm	450	450	525	550	550	600
Mechanical Values						
Combined M&E strength /kN	160	160	160	210	240	300
Impact Strength/nm	10	10	10	11.3	11.3	11.3
Routine proof test load/kn	80	80	80	105	120	150
Electrical Values						
Power frequency dry withstand Voltage/kV	80	80	90	90	90	90
Power frequency Wet withstand Voltage/kV	45	45	55	55	55	55
Dry lightning impulse withsatnd Voltage/kV	120	120	135	135	135	135
Power frequency puncture voltage/kV	130	130	130	130	130	130
Radio Influence Voltage Data						
Radio Influence Voltage Data/kV	10	10	10	10	10	10
Test Voltage RMS to Ground/uV	50	50	50	50	50	50
Net Weight, approximate/kg	11.7	12.0	12.6	14.5	15.2	15.7

Overall Dimensions

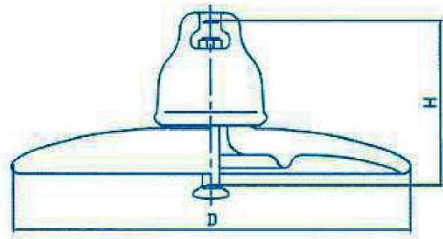


Fig 1

Aerodynamic Type Suspension Porcelain insulators

Fig.No.	1	1	1	1	1	1
Type No.	XMP-70	XMP-80	XMP-100	XMP-120	XMP-160	XMP-210
IEC Class	U70BL	U80BL	U100BL	U120BL	U160BL	U210BL
Coupling Size	16	16	16	16	20	20/24
Dimensions		∞				
Diameter(D)/mm	350	350	350	350	425	420
Spacing(H)/mm	146	146	146	146	146	170
Creepage distance/mm	300	300	300	300	385	380
Mechanical Values						
Combined M&E strength /kN	70	80	100	120	160	210
Impact Strength/nm	6	7	7	10	10	11.3
Routine proof test load/kn	35	40	50	60	80	105
Electrical Values						
Power frequency dry withstand Voltage/kV	70	70	70	70	75	75
Power frequency Wet withstand Voltage/kV	40	40	40	40	45	45
Dry lightning impulse withsatnd Voltage/kV	105	105	105	105	110	110
Power frequency puncture voltage/kV	120	120	120	120	130	130
Radio Influence Voltage Data						
Radio Influence Voltage Data/kV	10	10	10	10	10	10
Test Voltage RMS to Ground/uV	50	50	50	50	50	50
Net Weight,approximate/kg	5.7	5.9	6.7	7.2	11.3	12.4

Overall Dimensions

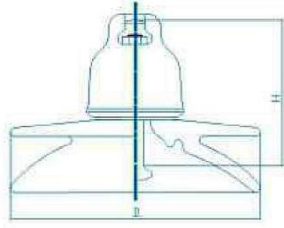


Fig 1

Anti-pollution Type Suspension Porcelain insulators
(Double Sheds)

Fig.No.	1	1	1	1	1	1
Type No.	XWP-70	XWP-100	XWP-120	XWP-160	XWP-210	XWP-300
IEC Class	U70BLP	U100BLP	U120BP	U160BP	U210BP	U300BP
Coupling Size	16	16	16	20	20/24	24
Dimensions						
Diameter(D)/mm	255/280	280	280	300/320	300	330
Spacing(H)/mm	146/160	146/160	146/160	155/170	170	195
Creepage distance/mm	400/450	450	450	450	450	505
Mechanical Values						
Combined M&E strength /kN	70	100	120	160	210	300
Impact Strength/nm	6	7	10	10	11.3	11.3
Routine proof test load/kn	35	50	60	80	105	150
Electrical Values						
Power frequency dry withstand Voltage/kV	80	80	80	80	80	80
Power frequency Wet withstand Voltage/kV	42	45	45	45	45	47
Dry lightning impulse withsatnd Voltage/kV	120	120	120	130	130	130
Power frequency puncture voltage/kV	120	120	120	120	130	130
Radio Influence Voltage Data						
Radio Influence Voltage Data/kV	10	10	10	10	10	10
Test Voltage RMS to Ground/uV	50	50	50	50	50	50
Net Weight,approximate/kg	5.9/6.7	7.9/8.5	8.3/8.5	8.9/9.1	12.5	14.8

Overall Dimensions

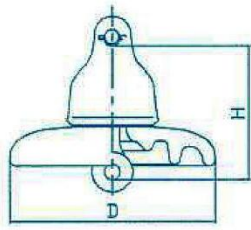


Fig 1

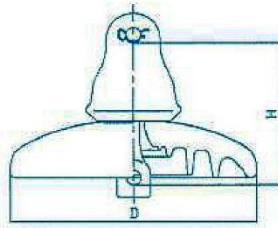


Fig 2

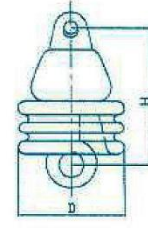


Fig 3

Clevis Type Suspension Porcelain insulators

Fig.No.	1	2	2	3	2
ANSI Class	52-1	52-4	52-6	52-9	52-10
Coupling Size	Type B	Type B	Type J	Type B	Type K
Dimensions					
Diameter(D)/inches (mm)	6 ½(165)	10(254)	10(254)	4 ¾(121)	11(280)
Spacing(H)/inches (mm)	5 ½(140)	5 ¾(146)	5 ¾(146)	6 ¼(159)	6 ½(165)
Creepage distance/inches (mm)	7(178)	12 5/8(320)	12 5/8(320)	7(178)	15(380)
Dry arcing Distance/inches (mm)	4 ½(114)	7 ¾(197)	7 ¾(197)	4(102)	8 ½(216)
Mechanical Values					
Combined M&E strength /pounds(kn)	10000(44)	15000(67)	25000(111)	10000(44)	40000(178)
Impact Strength/Inch-pounds(nm)	44(5)	55(6.2)	90(10)	45(5)	100(11.3)
Routine proof test load/pounds(kn)	5000(22)	7500(33.5)	12500(55.5)	5000(22)	20000(89)
Time load test value/pounds(kn)	6000(27)	10000(44.5)	15000(67)	6000(27)	24000(107)
Maximum working load/pounds(kn)	5000(22)	7500(33.5)	12500(55.5)	5000(22)	20000(89)
Electrical Values					
Lowr frequency dry flashoverVoltage/kV	60	80	80	60	80
Lowr frequency wet flashoverVoltage/kV	30	50	50	30	50
Critical impulse flashover voltage,positive/ kV	100	125	125	90	125
Critical impulse flashover voltage,negative/ kV	100	130	130	100	130
Low frequency puncture voltage/kV	80	110	110	80	110
Radio Influence Voltage Data					
Test Voltage RMS to Ground/kV	7.5	10	10	7.5	10
Maximum RIV at 1000kHz/uV	50	50	50	50	50
Net Weight,approximate/kg	2.5	4.8	5.5	2.6	8.1

Overall Dimensions

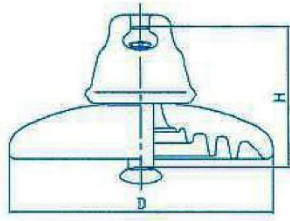


Fig 1

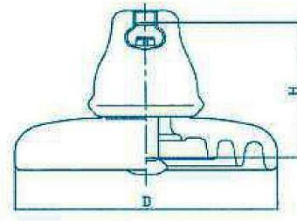


Fig 2

Clevis Type Suspension Porcelain insulators

Fig.No.	1	1	1	2
ANSI Class	52-3	52-5	52-8	52-11
Coupling Size	Type B	Type J	Type K	Type K
Dimensions				
Diameter(D)/inches (mm)	10(254)	10(254)	10(254)	11(280)
Spacing(H)/inches (mm)	5 ¾(146)	5 ¾(146)	5 ¾(146)	6 ½(155)
Creepage distance/inches (mm)	12 5/8(320)	12 5/8(320)	12 5/8(320)	15(380)
Dry arcing Distance/inches (mm)	7 ¾(197)	7 ¾(197)	7 ¾(197)	8 ½(216)
Mechanical Values				
Combined M&E strength /pounds(kn)	15000(67)	25000(111)	40000(178)	50000(222)
Impact Strength/Inch-pounds(nm)	55(6.2)	90(10)	100(11.3)	100(11.3)
Routine proof test load/pounds(kn)	7500(33.3)	12500(55.5)	20000(89)	25000(111)
Time load test value/pounds(kn)	10000(44.5)	15000(67)	24000(107)	30000(134)
Maximum working load/pounds(kn)	7500(33.3)	12500(55.5)	20000(89)	25000(111)
Electrical Values				
Lowr frequency dry flashoverVoltage/kV	80	80	80	80
Lowr frequency wet flashoverVoltage/kV	50	50	50	50
Critical impulse flashover voltage,positive/ kV	125	125	125	125
Critical impulse flashover voltage,negative/ kV	130	130	130	130
Low frequency puncture voltage/kV	110	110	110	110
Radio Influence Voltage Data				
Test Voltage RMS to Ground/kV	10	10	10	10
Maximum RIV at 1000kHz/uV	50	50	50	50
Net Weight,approximate/kg	4.7	5.2	7.8	9.7