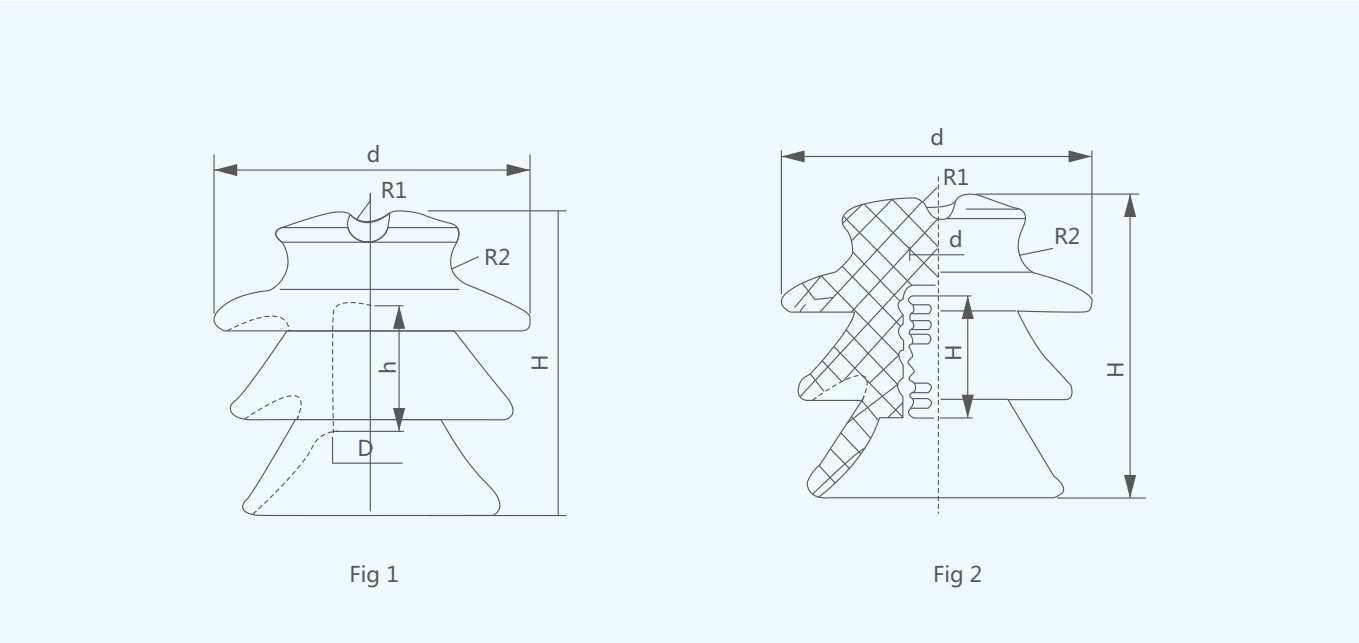
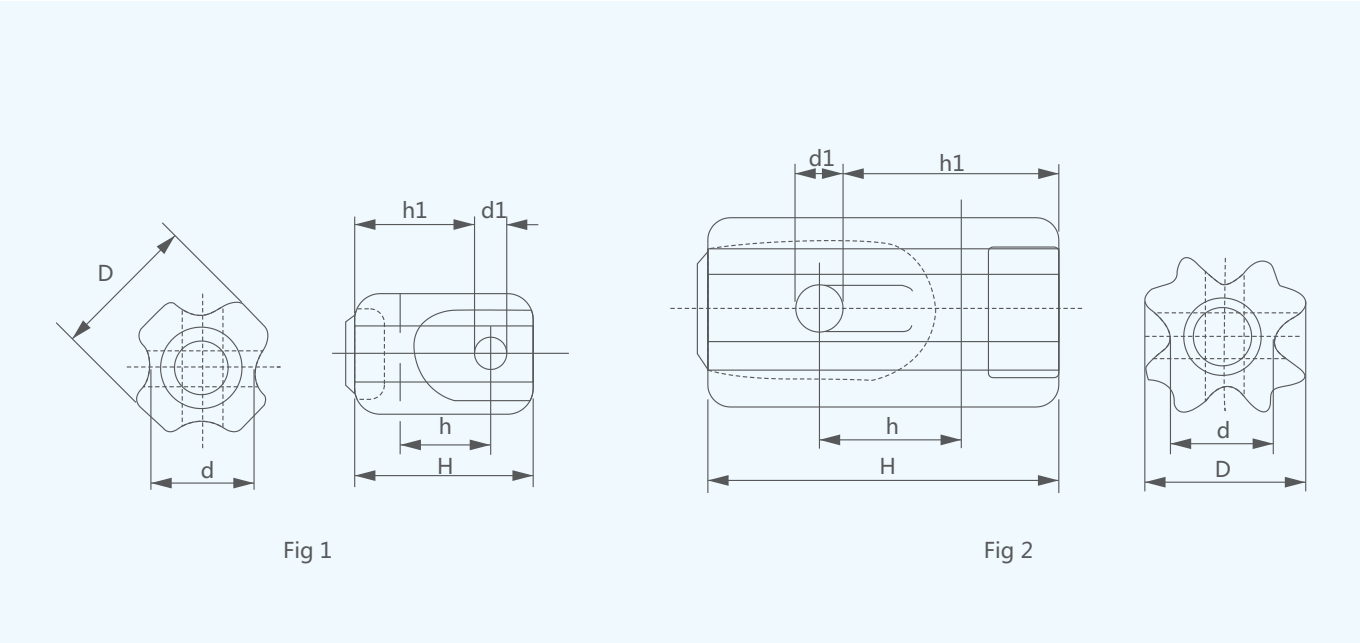




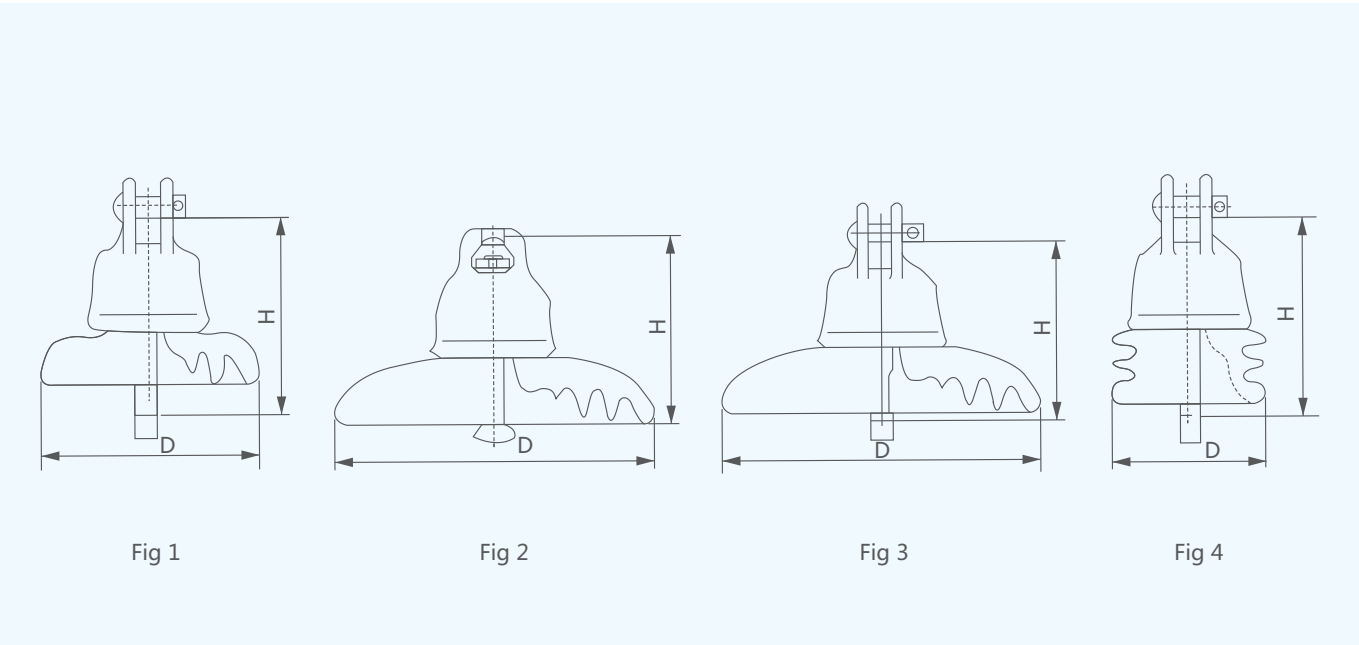
Main Dimensions and Technical Specification

Type			st-10/J	st-15/J	st-20/J	P-20-D
Cat.No			101034	101022	101023	101015
Fig.No			1	1	1	2
Main Dimensions(mm)	H		130	150	185	185
	h		55	60	65	52.63
	D		135	150	175	175
	d		31	31	35	27.78
	R1		10	10	10	10
	R2		12.5	12.5	12.5	12.5
Nominal voltage (kV)			10	15	20	20
Creepage distance (mm)			240	270	340	340
Power-frequency Puncture Voltage (kV)			110	120	140	150
Electronical Failing load (KN)			12	12	14.7	14.7
Flashover (min)	Power Frequency	Dry(kV)	70	75	90	80
		Wet(kV)	42	53	65	50
	50% Critical Fmpulse		100	110	130	130
Weight(kg)			1.5	2.7	3.4	3.8



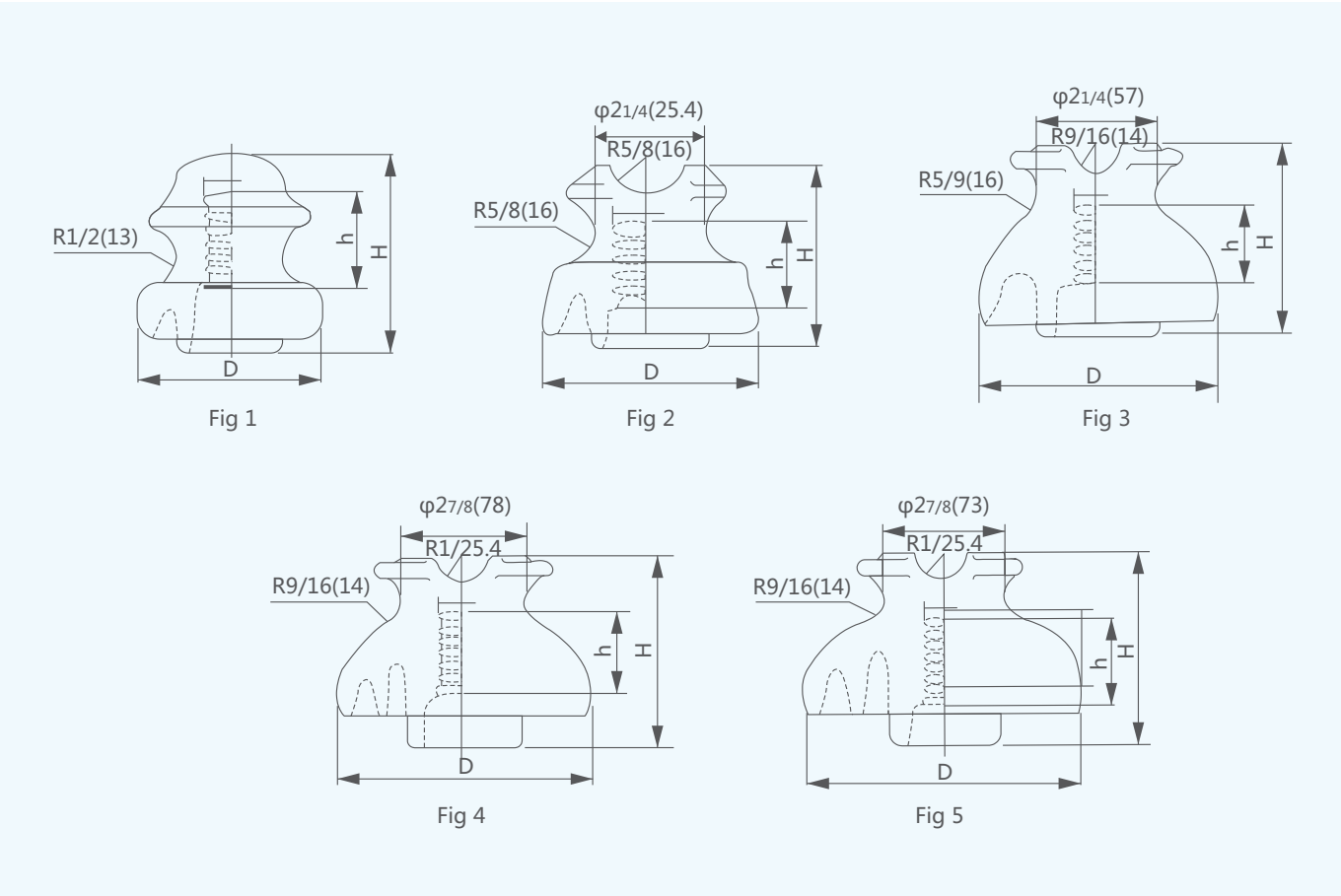
Main Dimensions and Technical Specification

Type			54-1	54-2	54-3	54-4
Cat.No			012001	012001	012003	012001
Fig.No			1	1	1	2
Main Dimensions(mm)		H	88	108	140	171
		h	64	76	103	114
		D	64	73	86	89
		d	44	54	60	60
		R1	16	22	25	25
		R2	44	57	79	69
Mechanical Failing load (kg)			44	53	89	89
Creepage distance (mm)			41	47	57	76
Flashover (min)	Power Frequency	Dry(kV)	25	30	35	40
		Wet(kV)	12	15	18	23
Weight(kg)			0.43	0.63	1.2	2



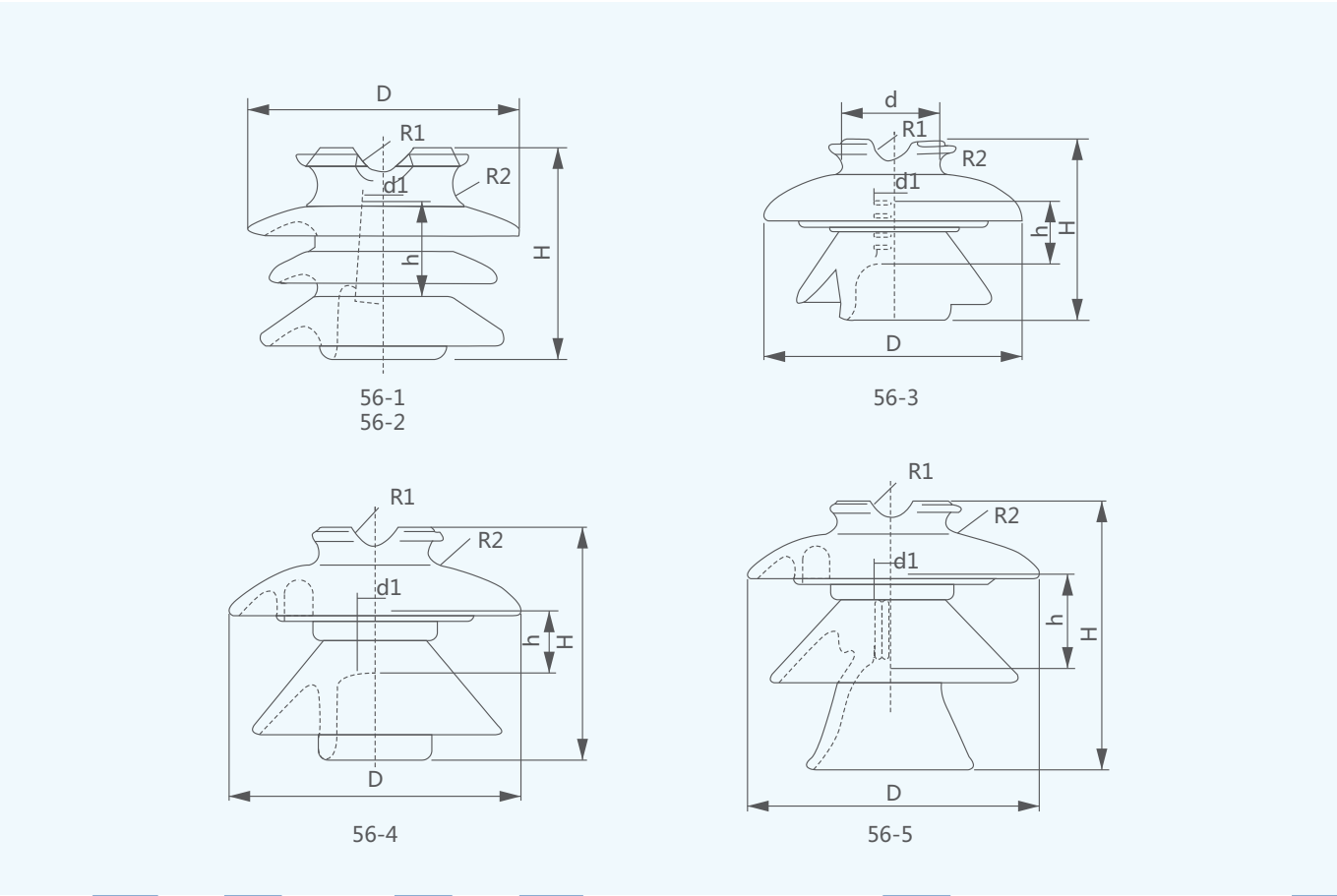
Main Dimensions and Technical Specification

ANSI class	Fig	Main dimension in(mm)		Creepage Distance in(mm)	Combined M&E strength IB(kN)	Mechanical impact strength in-Ib(N-m)	Time load test value Ib(kN)	Average Flashover voltage				Power Frequency Puncture Voltage KV	Radio Influence Voltage	
		D (max)	H					Power Frequency Dry kV	Wet kV	Critical Impulse Positive kV	Negative kV		Test Voltage to Ground KV	IMHz Max Rlvatl MHz
52-1	1	61/2 (165)	51/2 (141)	7 (178)	10000 (44)	45 (5.0)	6000 (27)	60	30	100	100	80	7.5	7.5
52-2	1	8 (203)	53/4 (146)	81/4 (210)	15000 (67)	50 (5.5)	10000 (44)	65	35	115	115	90	7.5	7.5
52-3	2	103/4 (273)	103/4 (146)	111/2 (292)	15000 (67)	55 (6.0)	10000 (44)	80	50	125	130	110	10	10
52-4	2	103/4 (273)	53/4 (146)	111/2 (292)	15000 (67)	55 (6.0)	10000 (44)	80	50	125	130	110	10	10
52-5	2	103/4 (273)	53/4 (146)	11 (279)	25000 (111)	60 (7.0)	15000 (67)	80	50	125	130	110	10	10
52-6	3	103/4 (273)	53/4 (146)	11 (279)	25000 (111)	60 (7.0)	15000 (67)	80	50	125	130	110	10	10
52-9	4	41/2 (114)	61/4 (160)	63/4 (171)	10000 (44)	45 (5.0)	6000 (27)	60	30	100	90	80	7.5	7.5



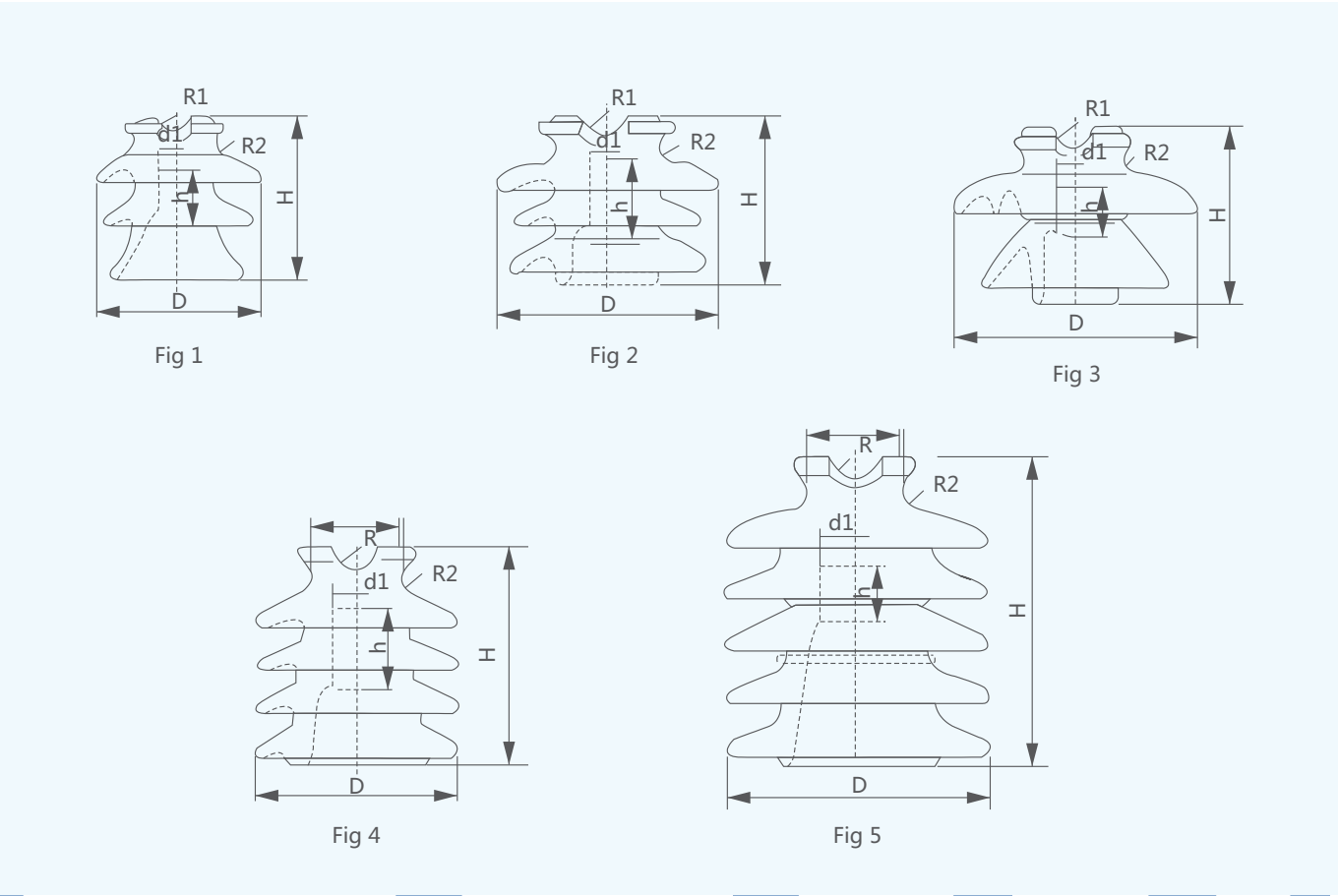
Main Dimensions and Technical Specification

ANSI class	Fig	Main dimension in(mm)			Creepage Distance in(mm)	Min.Pin length in (mm)	Cantilever Strength Ib (kn)	Average Flashover voltage				Power Frequency Puncture Voltage KV	Radio Influence Voltage	
		D	H	h				Power Frequency Dry kV	Wet kV	Critical Impulse Positive kV	Negative kV		Test Voltage to Ground KV	IMHz Max Rlvatl MHz
55-1	1	31/4 (83)	31/2 (89)	13/4 (44)	4 (102)	4 (102)	3000 (13)	35	20	50	70	50	5	2500/50
55-2	2	33/4 (95)	31/4 (83)	31/2 (83)	5 (127)	4 (102)	2500 (11)	50/45	25	75/70	95/85	70	5	2500/50
55-3	3	43/4 (121)	33/4 (95)	31/2 (83)	7 (178)	5 (127)	2500 (11)	65/55	35/30	100/90	130/110	90	10	5500/50
55-4	4	51/2 (140)	43/8 (111)	13/4 (44)	9 (229)	5 (127)	3000 (13)	70/65	40/35	110/105	140/130	95	10	5500/50
55-5	5	7 (178)	43/8 (124)	2 (51)	12 (305)	6 (125)	3000 (13)	85/80	45	140/130	170/150	15	15	8000/100



Main Dimensions and Technical Specification

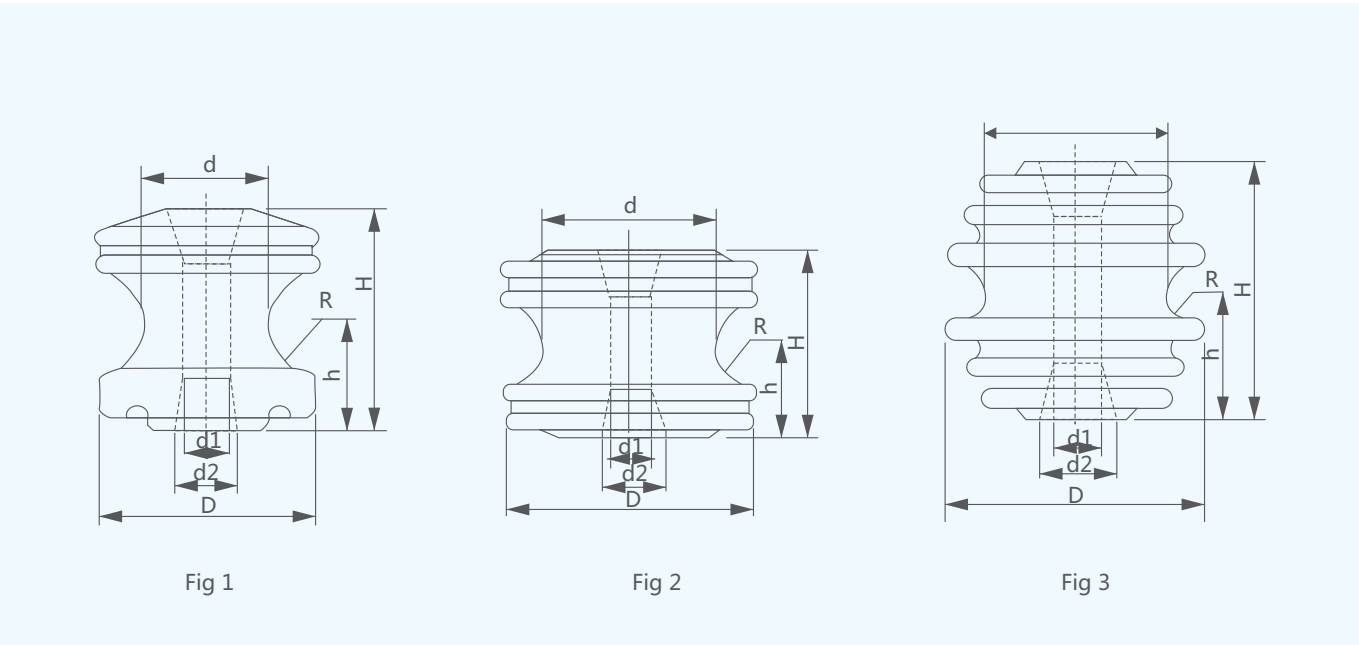
ANSI class	Main dimension in(mm)							Creepage Distance in(mm)	Min.Pin length in (mm)	Cantilever Strength lb (kn)	Average Flashover voltage				Power Frequency Puncture Voltage KV	Radio Influence Voltage	
											Power Frequency		Critical Impulse			Test Voltage to Ground KV	IMHz Max Rlvatl MHz
	D	H	d	d1	h	R1	R2				Dry kV	Wet kV	Positive kV	Negative kV			
56-1	7 1/2 (191)	5 3/4 (146)	3 1/2 (89)	13/8 (35)	2 (51)	3/4 (19)	9/14 (19)	13 (330)	6 (152)	2500 (11)	95	60	150	190	130	15	100
56-2	9 (229)	6 1/2 (165)	4 (102)	13/8 (35)	2 (51)	3/4 (19)	9/14 (19)	17 (432)	7 (178)	3000 (13.2)	110	70	175	225	145	22	100
56-3	10 1/2 (267)	7 1/2 (241)	4 (102)	13/8 (35)	2 (51)	3/4 (19)	9/14 (19)	21 (533)	8 (203)	3000 (13.2)	125	80	200	265	165	30	200
56-4	12 (305)	12 1/2 (241)		13/8 (35)	2 (51)	3/4 (19)	9/14 (19)	27 (385)	10 (254)	3000 (13.2)	140	95	225	310	185	30	200
56-5	13 1/2 (343)	12 1/2 (318)		13/8 (35)	2 (51)	3/4 (19)	9/14 (19)	34 (864)	12 (305)	3000 (13.2)	175	125	270	340	225	44	200



Main Dimensions and Technical Specification

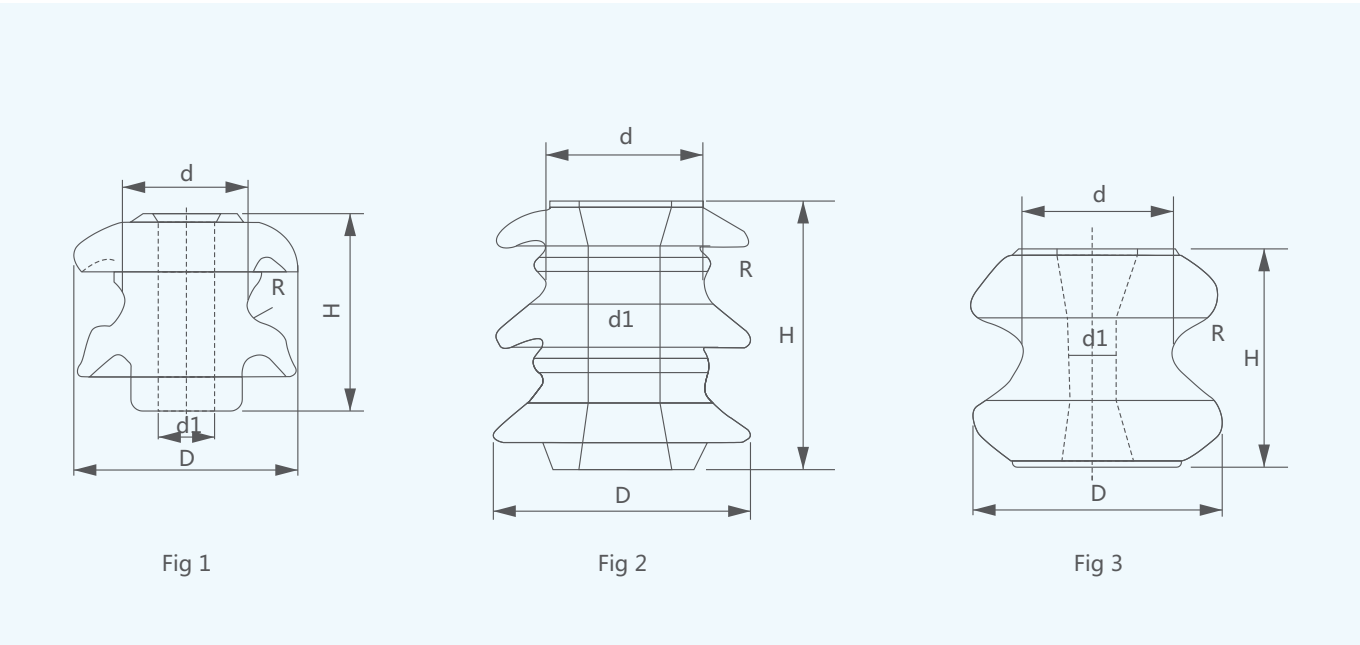
Type	Fig	Main dimension in(mm)							Creepage Distance in(mm)	Cantilever Strength Ib (kn)	Withstand Voltage		Power Frequency Puncture Voltage KV	Radio Influence Voltage		Used Spindle
		D	H	d1	h	R1	R2	d			1m Wer Power Frequency Withstand Voltage KV	Dry Impulse Wirhstand Voltage (peak)KV		Test Voltage to Ground KV	IMHz Max Rlvatl MHz	
P-11-Y	1	140	133	18.29	48	13	9.5		240	11	45	80	150	15	8000/100	small steel head
P-15-Y	1	152	137	18.29	48	13	12.7		298	11	50	95	150	15	8000/100	
P-22-Y	2	230	165	27.78	52.63	19	14.3		432	11	70	125	200	22	12000/100	large steel head
P-33-Y	3	279	244	27.78	52.63	19	13		630	13.8	90	170	210	30	16000/100	
PW-15-Y	4	170	185		52.63	16	16	76	432	11	50	95	150	22	12000/100	
PW-22-Y	5	205	255		52.63	16	16	76	673	11	70	125	200	30	16000/100	
PW-33-Y	5	240	320		52.63	16	16	76	851	11	90	170	210	44	25000/100	

Note: The left side of slant is Comman glaze, the right side of slant is semiconductor glaze.



Main Dimensions and Technical Specification

Type				53-1	53-2	53-3	53-4	53-5
Cat.No				006008	006009	006010	006011	006012
Fig.No				2	1	2	2	3
Main Dimensions(mm)		H		54	76	81	76	105
		h		27	38	40.5	38	52.5
		D		57	79	76	105	102
		d		45	45	45	73	73
		d1		8	18	18	18	18
		d2		22	24	24	24	24
		R		11	18	11	16	11
Mechanical Failing load (kg)				907	1360	1814	2041	2722
Flashover (min)	Power Frequency	Dry(kV)		20	25	25	25	35
		Wet (kV)	Upright	8	12	12	12	18
			Level	10	15	15	15	25
Weight(kg)				0.22	0.55	0.60	1.15	1.20



Main Dimensions and Technical Specification

Cat.No		006006	006005	006007	006013	006014	006015	
Fig.No		2	1	1	3	3	3	
Class Bs		ED-2(C)	ED-2(B)	ED-2(B)1	11617	1618-1	1618-2	
Main Dimensions(mm)		H	80	76	76	65	75	75
		D	80	89	89	76	89	89
		d	50	48	48	46	55	55
		d1	22	21	17.5	17.6	17	17
		R	6	10	10	9	12.5	12.5
Mechanical Failing load (kg)		13	12	12	9	10	13	
Flashover (min)	Power Frequency	Dry(kV)	25	25	25	20	20	25
		Wet(kV)	15	12	12	9	9	12
Weight(kg)		0.50	0.50	0.50	0.4	-	-	

Fired blank: bron glaze