



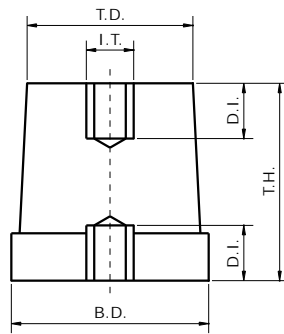
PHOENIX IMPEX



● BUSBAR SUPPORTS / INSULATORS -----	1
● QUARTER TURN CAM LOCKS -----	9
● KEY OPERATED QUARTER TERN CAM LOCKS -----	11
● KEY FOR CAM LOCKS -----	12
● DOOR HANDLES -----	13
● HINGES ZINC DIE CAST -----	13
● HINGES MILD STEEL -----	15
● HINGES BRASS -----	19
● HINGES POLYAMIDE -----	19
● INSTRUMENT COOLING FAN -----	20
● AIR VENT / FINGER GUARD -----	29
● DOCUMENT FOLDERS -----	30
● PVC / RUBBERGROMMETS -----	31
● DIN RIALS -----	32
● BRASS EARTH BARS / NEUTRAL BARS -----	34
● DB / NEUTRAL BASE -----	35
● ROTARY CAM SWITCHES -----	36
● PVC WIRING CHANNELS -----	40
● PVC LF BUSBAR SLEEVES -----	42
● METER VIEWING WINDOW -----	43
● HEXAGONAL METAL SPACERS -----	44
● DB BLANKING PLATES -----	44
● SINGLE SIDED ADHESIVE GASKET -----	45
● SPIRAL BAND -----	45
● INSULATED BUSBAR SYSTEM FOR MCB's -----	45
● PVC SLEEVE / TUBES -----	46
● PVC MARKING TUBES -----	46
● CERAMIC PORCELAIN CONNECTORS -----	47
● BRASS CABLE GLANDS -----	48

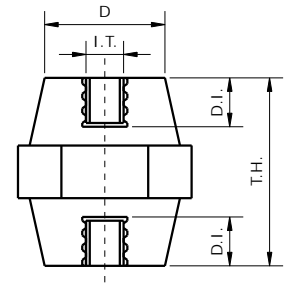
# STANDOFF INSULATORS

## CONICAL



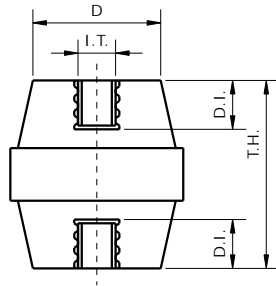
Part Number	T.H.	I.T.	D.I.	T.D.	B.D.
PP2506CD	25	M6	7	21	25
PP3006CD	30	M6	9	21	30
PP3008CD	30	M8	7	26	33
PP3508CD	35	M8	9	28	35
PP4008CD	40	M8	12	29	40
PP4010CD	40	M10	11	33	40
PP4508CD	45	M8	11	32	40
PP5010CD	50	M10	14	41	50
PP6012CD	60	M12	17	40	50
PP7012CD	70	M12	17	38	50
PP7512CD	75	M12	17	38	50
PP8012CD	80	M12	17	38	50

## HEXAGONAL (ECONOMY)



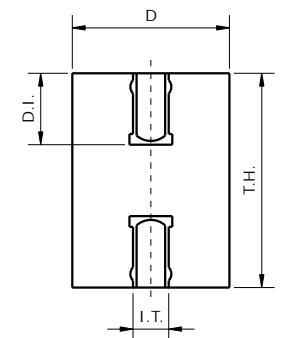
Part Number	T.H.	I.T.	D.I.	D
PP2506HD	25	M6	9	16
PP3006HD	30	M6	9	27
PP3008HD	30	M8	10	27
PP3506HD	35	M6	9	27
PP3508HD	35	M8	10	27
PP4008HD	40	M8	10	30
PP4010HD	40	M10	14	30
PP5010HD	50	M10	14	35
PP5012HD	50	M12	17	35
PP6010HD	60	M10	14	35
PP6012HD	60	M12	17	35
PP7510HD	75	M10	14	36
PP7512HD	75	M12	17	36

## DRUM (SPANNER)



Part Number	T.H.	I.T.	D.I.	D
PP2506DD	25	M6	8	17
PP3006DD	30	M6	9	25
PP3008DD	30	M8	8	25
PP3506DD	35	M6	9	27
PP3508DD	35	M8	9	27
PP4008DD	40	M8	12	29
PP4510DD	45	M10	14	30
PP5010DD	50	M10	15	35
PP5108DD	51	M8	14	29
PP5510DD	55	M10	14	35
PP6510DD	65	M10	17	34
PP7610DD	76	M10	22	39
PP7612DD	76	M12	22	36
PP8516DD	85	M16	28	54

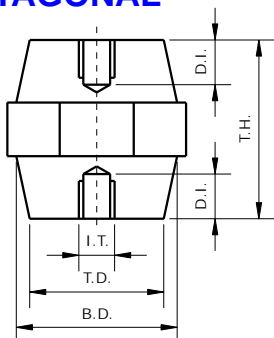
## FULL ROUND



Part Number	T.H.	I.T.	D.I.	D
PP03006RD	30	M6	9	20
PP04008RD	40	M8	15	40
PP06012RD	60	M12	25	60
PP08012RD	80	M12	25	60
PP10012RD	100	M12	35	60

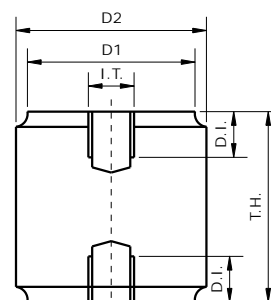
All Dimensions are in mm | Color - Red | Material - DMC  
 DMC insulators with customer specified brass insert depth can be manufactured

## OCTAGONAL



Part Number	T.H.	I.T.	D.I.	D
PP2004OD	20	M4	5	18
PP2506OD	25	M6	7	21
PP3006OD	30	M6	7	28
PP3008OD	30	M8	9	28
PP3506OD	35	M6	9	30
PP3508OD	35	M8	11	30
PP4006OD	40	M6	12	39
PP4508OD	45	M8	14	38
PP4510OD	45	M10	14	38
PP5010OD	50	M10	15	40
PP5012OD	50	M12	15	40
PP5510OD	55	M10	17	52
PP5512OD	55	M12	17	52
PP6010OD	60	M10	20	50
PP6012OD	60	M12	20	50
PP6510OD	65	M10	20	40
PP6512OD	65	M12	20	40
PP7010OD	70	M10	22	47
PP7012OD	70	M12	22	47
PP7510OD	75	M10	22	50
PP7512OD	75	M12	22	50
PP8010OD	80	M10	22	41
PP10012	100	M12	38	61

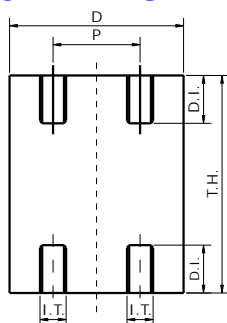
## CYLINDRICAL



All Dimensions are in mm  
 Color - Bond Gray  
 Material - DMC  
 DMC insulators with customer specified brass insert depth can be manufactured

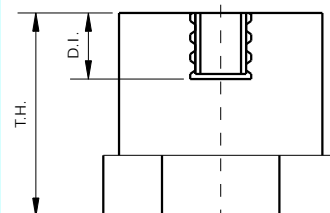
Part Number	D1	D2	T.H.	I.T.	D.I.
PP252506SC	22	25	25	M6	7
PP303006SC	23	30	30	M6	9
PP303008SC	23	30	30	M8	7
PP404006SC	30	40	40	M6	12
PP404008SC	30	40	40	M8	12
PP404010SC	30	40	40	M10	11
PP505010SC	40	50	50	M10	15
PP505012SC	40	50	50	M12	15
PP605010SC	40	50	60	M10	22
PP605012SC	40	50	60	M12	22
PP606010SC	50	60	60	M10	22
PP606012SC	50	60	60	M12	22
PP806010SC	50	60	80	M10	22
PP806012SC	50	60	80	M12	22

## CYLINDRICAL 4 INSERTS



Part Number	T.H.	I.T.	D.I.	D	P
PPCYL1-6	50	M6	11	40	20
PPCYL1-8	50	M8	11	40	20
PPCYL2-8	60	M8	11	60	25
PPCYL3-6	70	M6	11	40	21
PPCYL3-8	70	M8	11	40	21

## ROUND HEX



Round & Hex Face to Face (A/F 20 mm)

Insulator with M5 Inserts

Part Number	T.H.	D.I.
PP20RH 520	20	7
PP20RH 525	25	10

Insulator with M6 Inserts

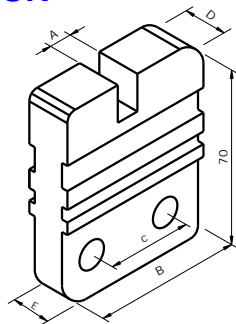
Part Number	T.H.	D.I.
PP20RH 620	20	7
PP20RH 625	25	10

All Dimensions are in mm | Color - Red | Material - DMC  
 DMC insulators with customer specified brass insert depth can be manufactured



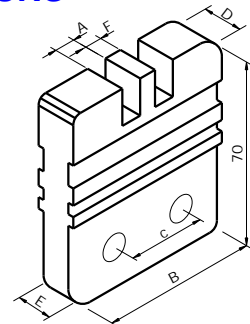
# FINGER TYPE BUSBAR SUPPORTS

## 1 RUN



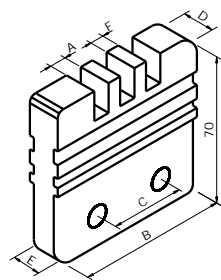
Part Number	Descripton	A	B	C	D	E
P106-SF	6mm x 1run	7.2	50	22	14	10
P110-SF	10mm x 1run	11	50	22	14	10
P112-SF	12mm x 1run	13.7	50	22	14	10

## 2 RUNS



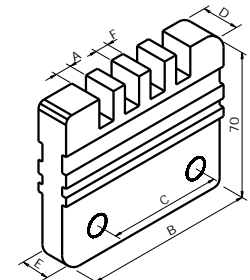
Part Number	Descripton	A	B	C	D	E	F
P206-WF	6mm x 2runs	7.2	60	32	14	10	5.8
P210-WF	10mm x 2runs	11	60	32	14	10	9
P212-WF	12mm x 2runs	13.7	70	32	14	10	11.9

## 3 RUNS



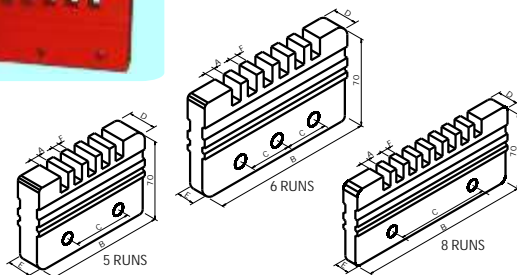
Part Number	Descripton	A	B	C	D	E	F
P306-WF	6mm x 3runs	7.2	70	32	14	10	5.8
P310-WF	10mm x 3runs	11	80	50	14	10	9
P312-WF	12mm x 3runs	13.7	90	50	15	10	11.9

## 4 RUNS



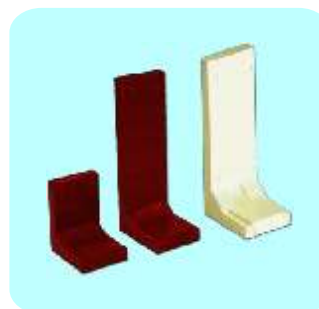
Part Number	Descripton	A	B	C	D	E	F
P406-WF	6mm x 4runs	7.2	80	50	14	10	5.8
P410-KF	10mm x 4runs	11	130	80	20	16	9
P412-KF	12mm x 4runs	13.7	130	80	20	16	12

## 5 RUNS, 6 RUNS, 8 RUNS

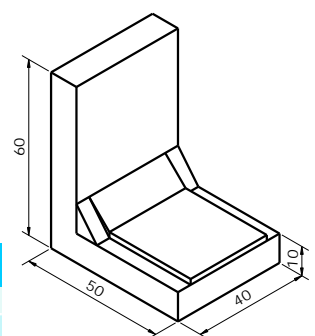


Part Number	Descripton	A	B	C	D	E	F
P306-WF	6mm x 5runs	7.2	100	50	20	16	5.8
P310-WF	10mm x 5runs	11	160	55/55	25	20	9
P312-WF	12mm x 5runs	13	160	55/55	25	20	11
P306-WF	6mm x 6runs	7.2	160	50	20	16	5.8
P310-WF	10mm x 6runs	11	160	55/55	25	20	9
P312-WF	12mm x 6runs	13.7	160	55/55	25	20	9
P312-WF	6mm x 8runs	7.2	130	80	25	20	5.8

## L SUPPORTS

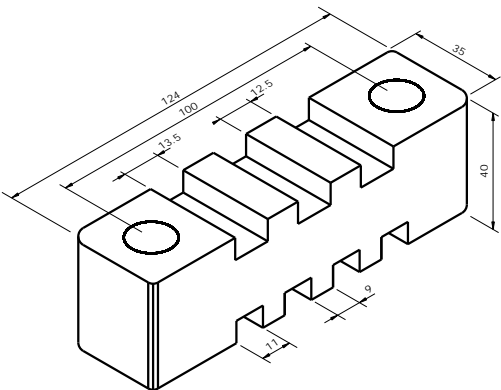
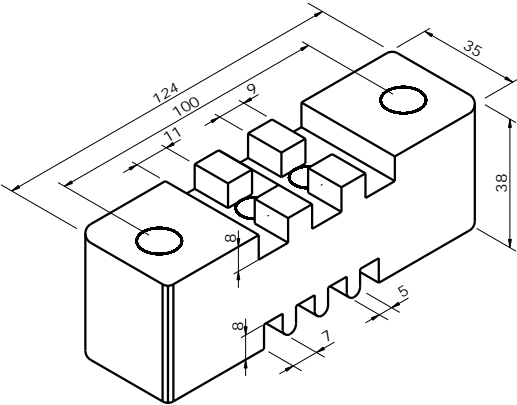
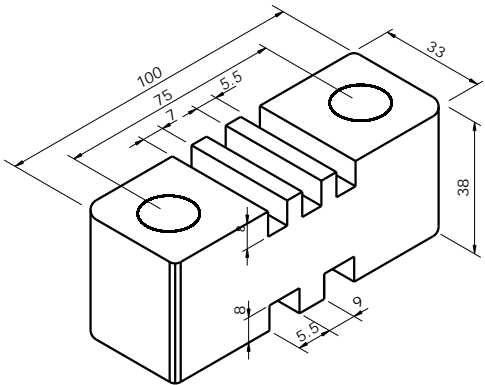
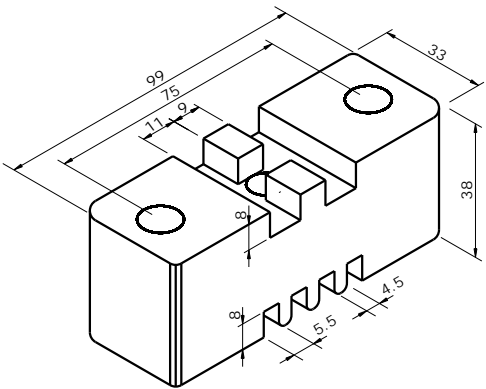


Part Number	T.H.
PL50	50
PL50	60
PL85	85
PL100	100
PL125	125



All Dimensions are in mm | Color - Red | Material - DMC  
 DMC insulators with customer specified brass insert depth can be manufactured

# SINGLE POLE BUSBAR SUPPORTS

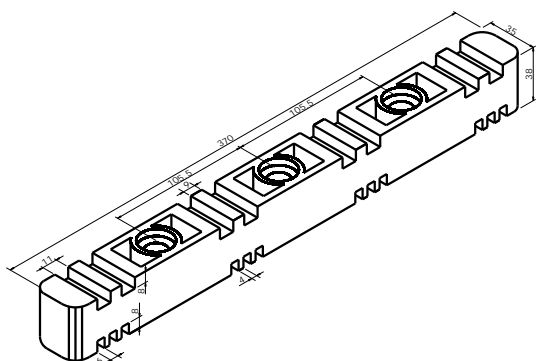
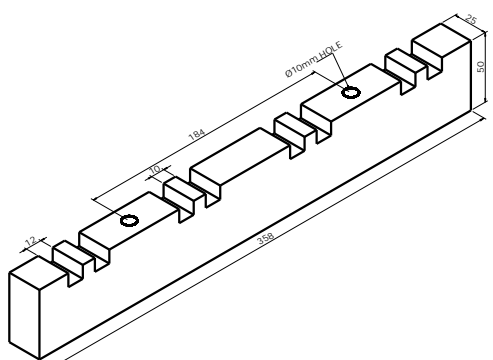
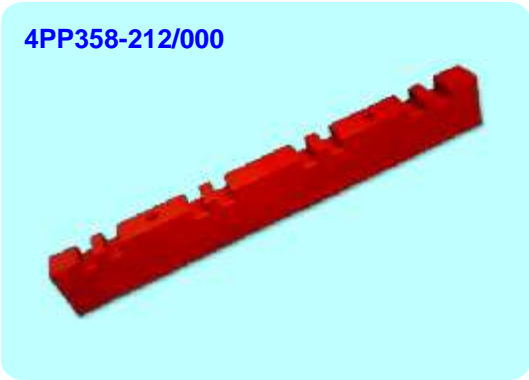
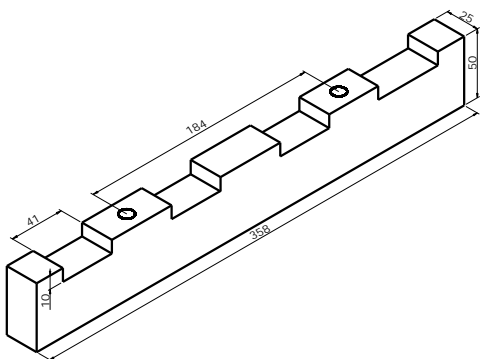
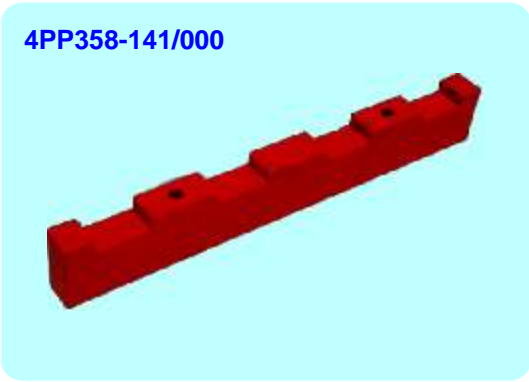
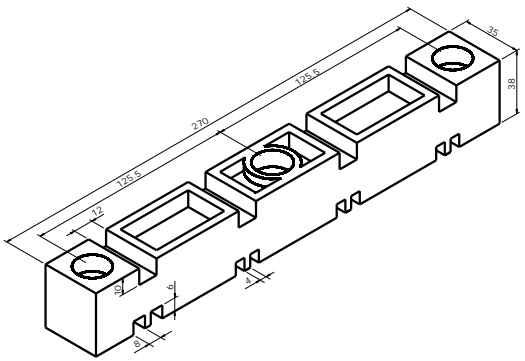
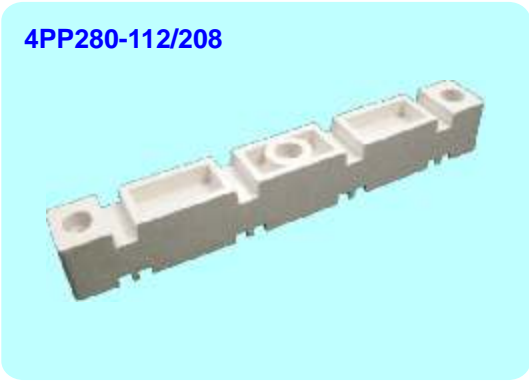


Mounting hole suitable for M8 Stud  
 All Dimensions are in mm | Color - Red/White/Light Grey/Black | Material - SMC/DMC





# FOUR POLE BUSBAR SUPPORTS

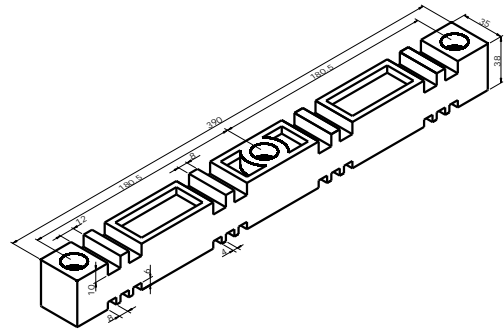


All Dimensions are in mm | Color - Red/White/Light Grey/Black | Material - SMC/DMC  
 DMC insulators with customer specified brass insert depth can be manufactured

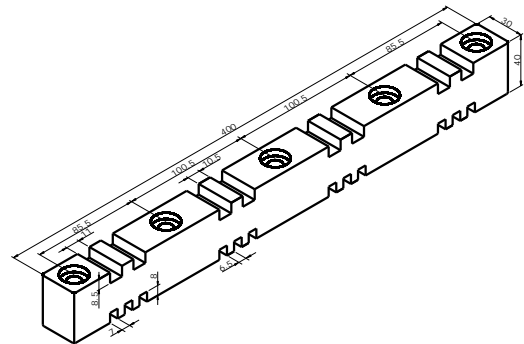
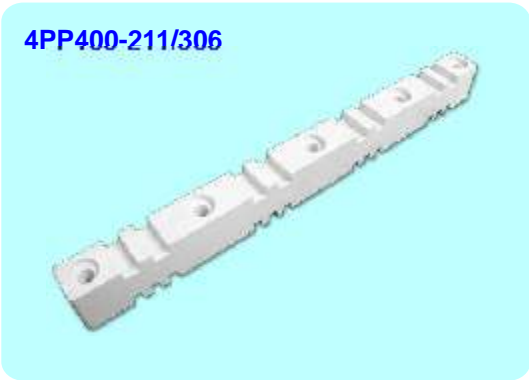


# FOUR POLE BUSBAR SUPPORTS

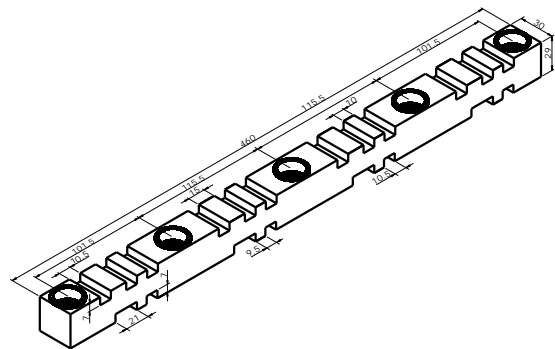
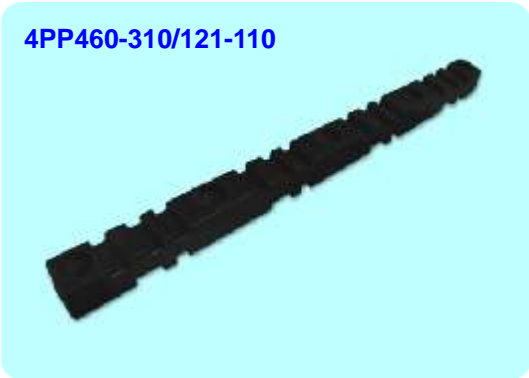
**4PP390-212/308**



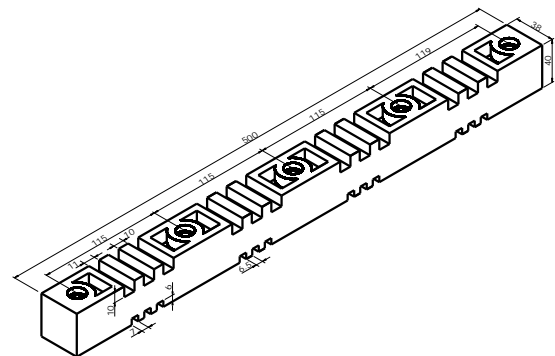
**4PP400-211/306**



**4PP460-310/121-110**

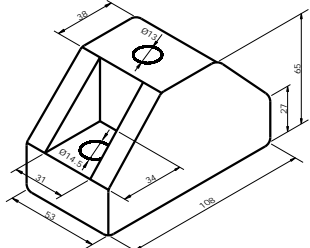
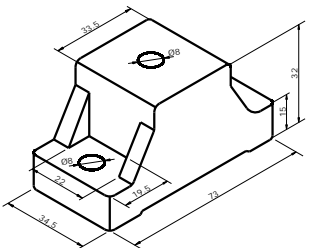
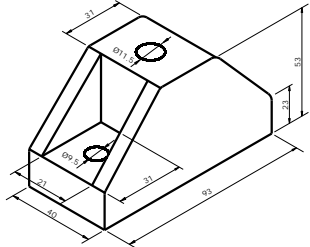
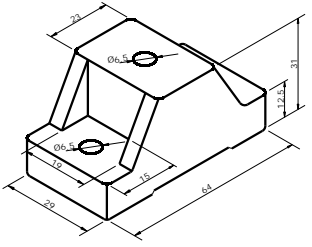
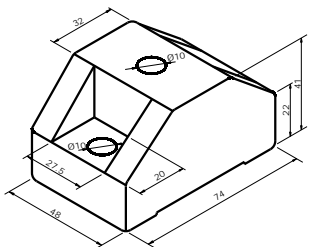
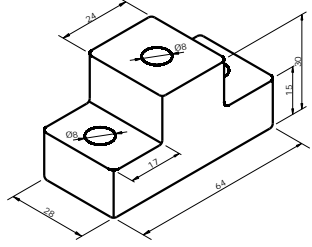
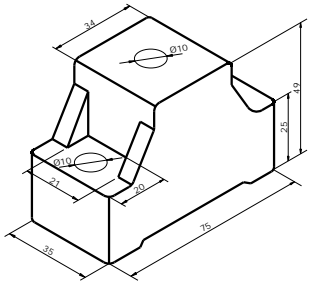
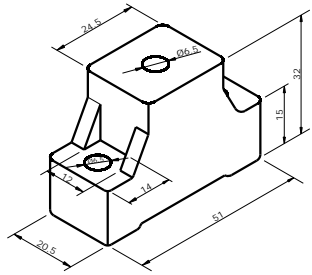


**4PP500-307/311**



All Dimensions are in mm | Color - Red/White/Light Grey/Black | Material - SMC/DMC  
DMC insulators with customer specified brass insert depth can be manufactured

# CERAMIC PORCELAIN BUSBAR SUPPORTS



All Dimensions are in mm | Color - **White/Cream** | Material - Electrical Grade Ceramic  
 Porcelain insulators with customer speci?ed dimensions can be manufactured

## QUARTER TURN CAM LOCKS

**MINI LOCK SCREW DRIVER SLOT**



**PLKP-01**

**PANEL LOCK ROUND DRIVE**



**PLKP-05**

**NGF LOCK SCREW DRIVER SLOT**



**PLKP-02**

**PANEL LOCK TRIANGLE DRIVE**



**PLKP-06**

**NGF LOCK ROUND DRIVE**



**PLKP-03**

**PANEL LOCK SQUARE DRIVE**



**PLKP-07**

**PANEL LOCK SCREW DRIVER SLOT**



**PLKP-04**

**PANEL LOCK - KNOB OPERATED**



**PLKP-08**

## QUARTER TURN CAM LOCKS

**PANEL LOCK (POLYAMIDE)  
SCREW DRIVER SLOT**



**PPLKPP-01**

**PANEL LOCK (POLYAMIDE)  
RECTANGLE FACE**



**PPLKPP-05**

**PANEL LOCK (POLYAMIDE)  
ROUND DRIVE**



**PPLKPP-02**

**PANEL LOCK (POLYAMIDE)  
SMALL KNOB OPERATED**



**PPLKTPK-06**

**PANEL LOCK (POLYAMIDE)  
TRIANGLE DRIVE**



**PPLKPP-03**

**PANEL LOCK (POLYAMIDE)  
BIG KNOB OPERATED**



**PPLKTPK-07**

**PANEL LOCK (POLYAMIDE)  
SQUARE DRIVE**



**PPLKPP-04**

**PANEL LOCK (POLYAMIDE)  
DETACHABLE  
KNOB OPERATED**



**PPLKTPK-08**

QUARTER TURN CAM LOCKS & KEY OPERATED



**KEY FOR QUARTER TURN CAM LOCKS & DOOR HANDLES**

**PANEL KEY (ZINC DIE CAST)**



**PKYT-01/02/03**

**POLYAMIDE C-HANDLE**



**PHNP-01**

**PANEL KEY (ZINC DIE CAST)**



**PKYT-04**

**POLYAMIDE C-HANDLE HEAVY**



**PHNP-02**

**PANEL KEY (ZINC DIE CAST)**



**PKYT-05**

**M.S. C-HANDLE**



**PHMP-01**

**PANEL KEY (POLYAMIDE)**



**PPKYT-01/02/03**

**SLIDE LOCK (POLYAMIDE)  
FOR DB**



**PSLKPP-01**

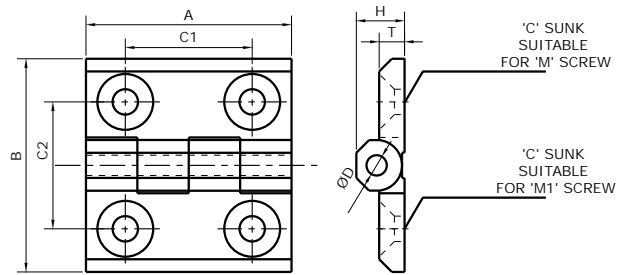


## ZINC DIE CAST HINGES

### FLAP TYPE (180°)



PKYT-01/02/03



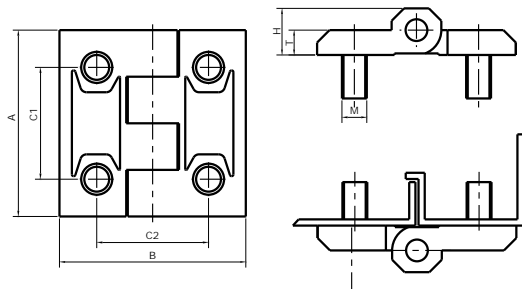
Part No.	A	B	C1	C2	T	H	d	M
DHIP-01	25	25	15	15	3.5	6	3	M3
DHIP-02	41	42	25	25	5	9	4	M5
DHIP-03	50	50	30	30	6	11	6	M6
DHIP-04	61	61	36	36	6	11	6	M6

Material: Zinc | Finish: Black Powder coated / Nickel Plated  
| Pin: M.S. Nickel Plated/S.S. Plated

### FLAP TYPE WITH STUD (180°)



PHIP-05/06/07/08



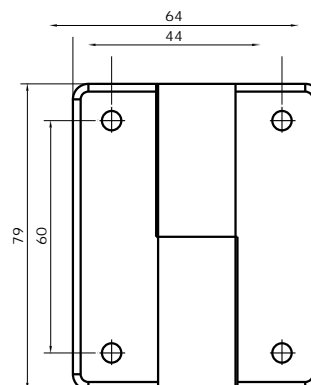
Part No.	A	B	C1	C2	T	H	d	M
DHIP-05	41	42	25	25	5	9	4	M5
DHIP-06	50	50	30	30	6	11	6	M5
DHIP-07	61	61	36	36	6	11	6	M5
DHIP-08	61	76	36	55.5	6	11.5	6	M5

Material: Zinc | Finish: Black Powder coated / Nickel Plated  
| Pin: M.S. Nickel Plated/S.S. Stud: M.S. Zinc Plated

### LIFT OFF WITH STUD (LH / RH) (180°)



PHIP-09



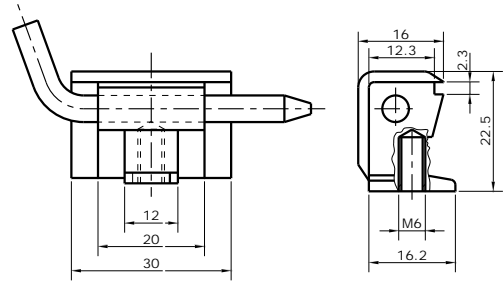
Material: Zinc | Finish: Black Powder coated / Nickel Plated  
| Pin: M.S. Nickel Plated/S.S. Plated



**EXPOSED HINGE 1 HOLE (180°)**



**DHIP-10**

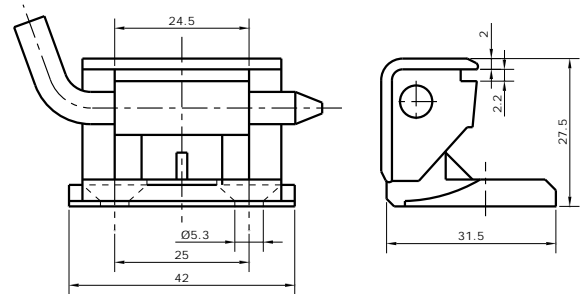


Material : Zinc | Finish: Black Powder coated / Nickel Plated | Pin: M.S. Nickel Plated/S.S.

**EXPOSED HINGE 2 HOLE (180°)**



**DHIP-11**

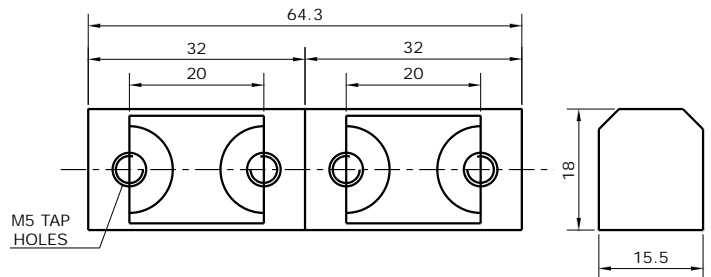


Material : Zinc | Finish: Black Powder coated / Nickel Plated | Pin: M.S. Nickel Plated/S.S.

**LIFT OFF BAR HINGE (180°)**



**DHIP-12**

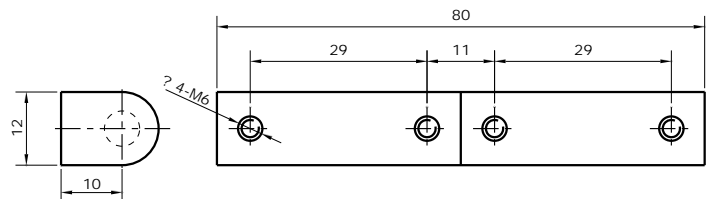


Material : Zinc | Finish: Black Powder coated / Nickel Plated | Pin: M.S. Nickel Plated/S.S.

**LIFT OFF BAR HINGE (180°)**



**DHIP-13**



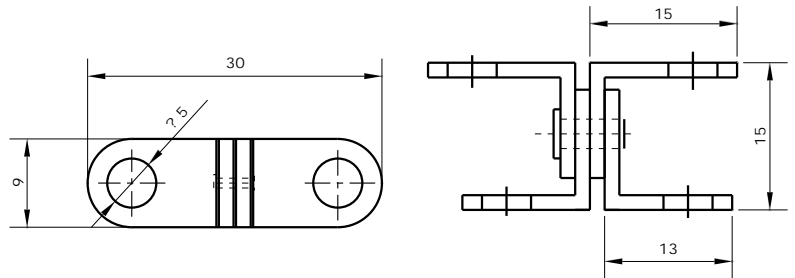
Material : Zinc | Finish: Black Powder coated / Nickel Plated | Pin: M.S. Nickel Plated/S.S.

## MILD STEEL HINGES

### CONCEALED HINGE (360°)



**PMSHP-01**

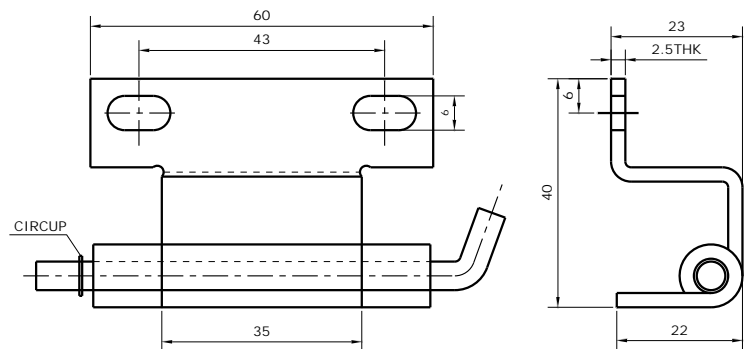


Material: M.S. | Finish: Nickel Plated | Rivet: M.S. Nickel Plated

### ONCEALED HINGE (120°)



**PMSHP-02**

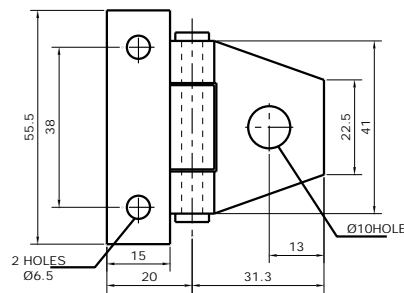


Material: M.S. | Finish: Zinc Plated | Pin: M.S. Zinc Plated

### CONCEALED HINGE (120°)



**PMSHP-03**

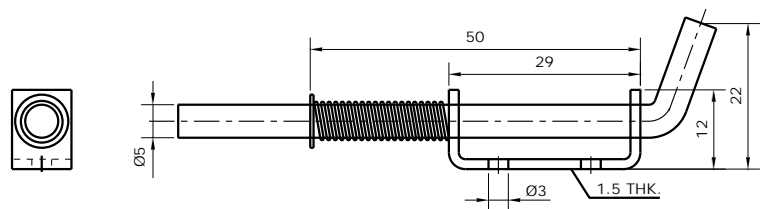


Material: M.S. | Finish: Zinc Plated | Pin: M.S. Zinc Plated

### SPRING HINGE



**PMSHP-04**



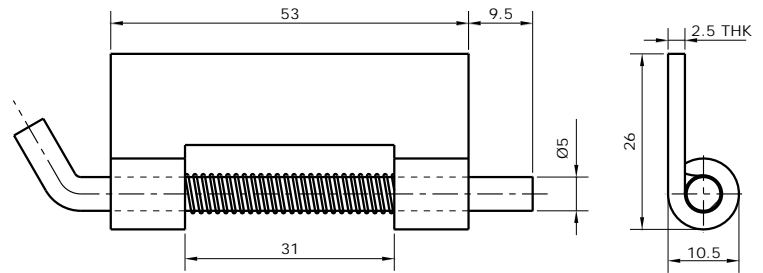
Material: M.S. | Finish: Zinc Plated | Pin: M.S. Zinc Plated

## MILD STEEL HINGES

### SPRING HINGE



**PMSHP-05**

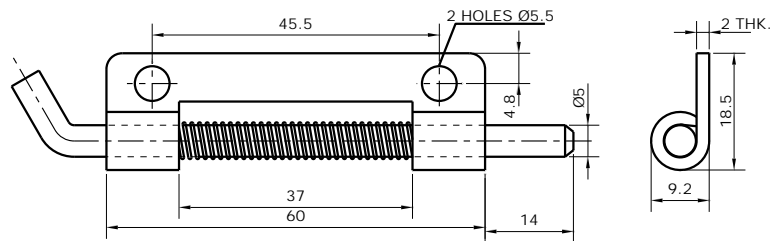


Material: M.S. | Finish: Zinc Plated | Pin: M.S. Zinc Plated

### SPRING HINGE



**PMSHP-06**

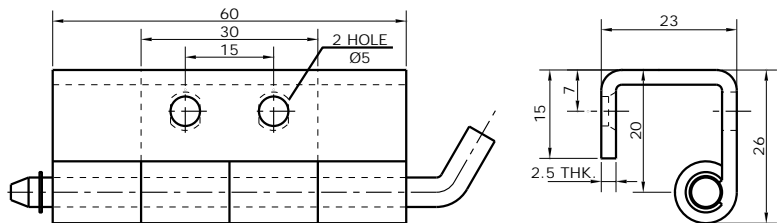


Material: M.S. | Finish: Zinc Plated | Pin: M.S. Zinc Plated

### ONCEALED HINGE 60mm (120°)



**PMSHP-07**

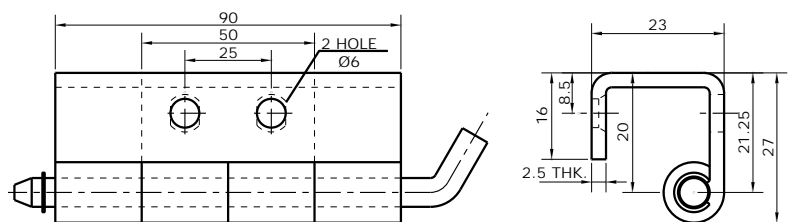


Material: M.S. | Finish: Zinc Plated | Pin: M.S. Zinc Plated

### CONCEALED HINGE 90mm (120°)



**PMSHP-08**



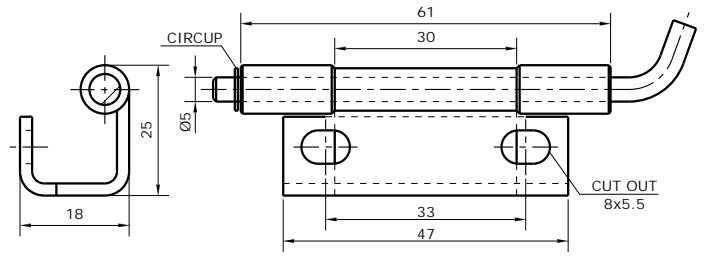
Material: M.S. | Finish: Zinc Plated | Pin: M.S. Zinc Plated

# MILD STEEL HINGES

## ONCEALED HINGE (90°)



**PMSHP-09**

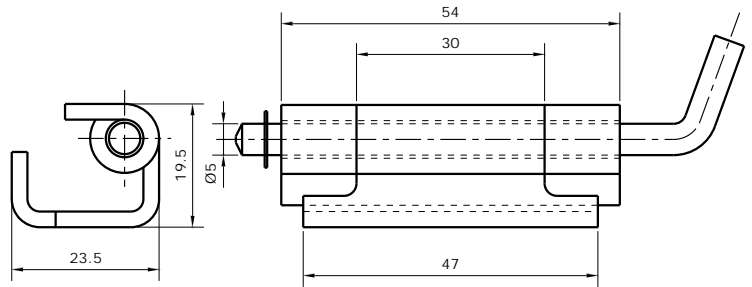


Material: M.S. | Finish: Zinc Plated | Pin: M.S. Zinc Plated

## ONCEALED HINGE (90°)



**PMSHP-10**

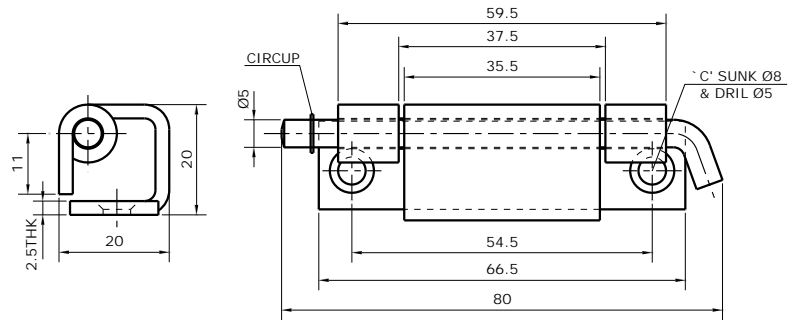


Material: M.S. | Finish: Zinc Plated | Pin: M.S. Zinc Plated

## CONCEALED HINGE (120°)



**PMSHP-11**

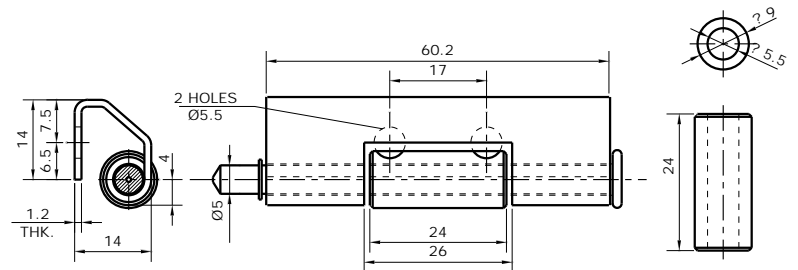


Material: M.S. | Finish: Zinc Plated | Pin: M.S. Zinc Plated

## CONCEALED HINGE (90°)



**PMSHP-12**



Material: M.S. | Finish: Zinc Plated | Pin: M.S. Zinc Plated

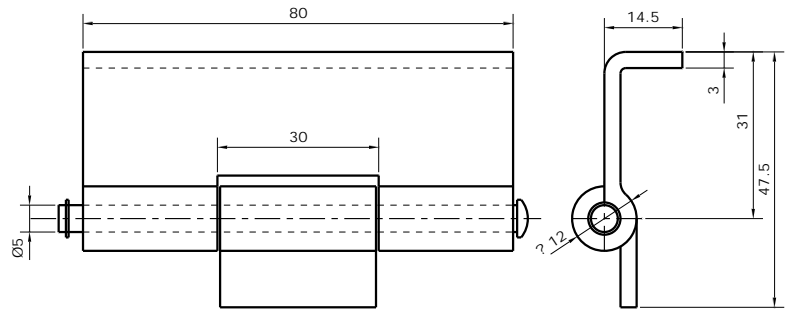


# MILD STEEL HINGES

## ONCEALED HINGE (90°)



**PMSHP-13**

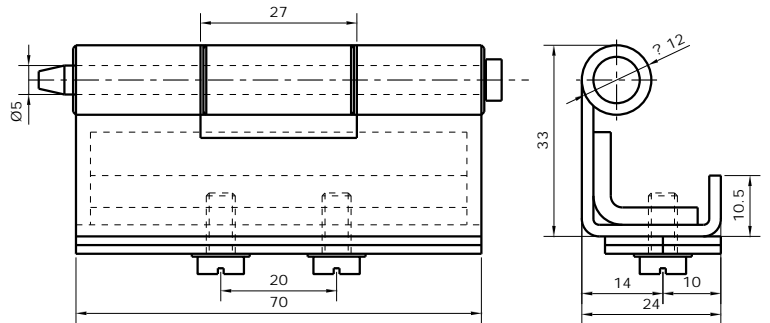


Material: M.S. | Finish: Zinc Plated | Pin: M.S. Zinc Plated

## ONCEALED ROLLER HINGE (110°)



**PMSHP-14**

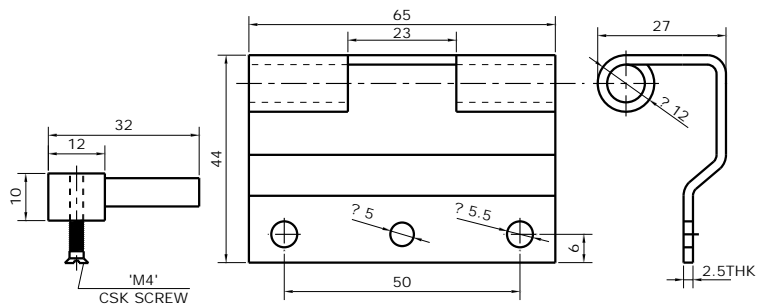


Material: M.S. | Finish: Zinc Plated | Pin: M.S. Zinc Plated

## ONCEALED HINGE (90°)



**PMSHP-15**

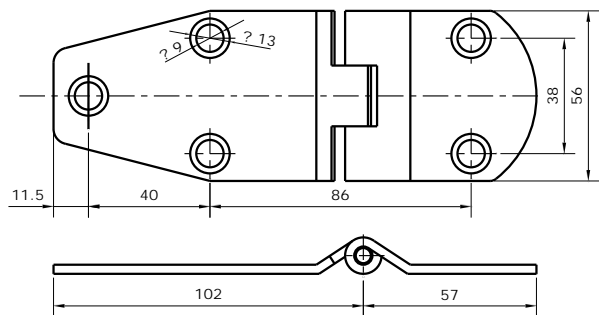


Material: M.S. | Finish: Zinc Plated | Pin: M.S. Zinc Plated

## CONCEALED HINGE (90°)



**PMSHP-16**



Material: M.S. | Finish: Zinc Plated | Pin: M.S. Zinc Plated



**BRASS HINGES & POLYAMIDE HINGES**

**LIFT OFF BAR HINGE (180°)**




**PBBHP-01 TO 08**

**EXPOSED HINGE 1 HOLE (180°)**



**PPHP-01**

**MALE FEMALE HINGE (180°)  
35mm**




**PMFHP-35**

**EXPOSED HINGE 1 HOLE (180°)**



**PPHP-02**

**MALE FEMALE HINGE (180°)  
60mm**




**PMFHP-60H**                      **PMFHP-60**

**EXPOSED HINGE WITH  
MOULDED BOLT & NUT (180°)**



**PPHP-03**

**MALE FEMALE HINGE (180°)  
80mm**



**PMFHP-80**

**FLAP TYPE (180°)**



**PPHP-04 TO 06**

## SIZE

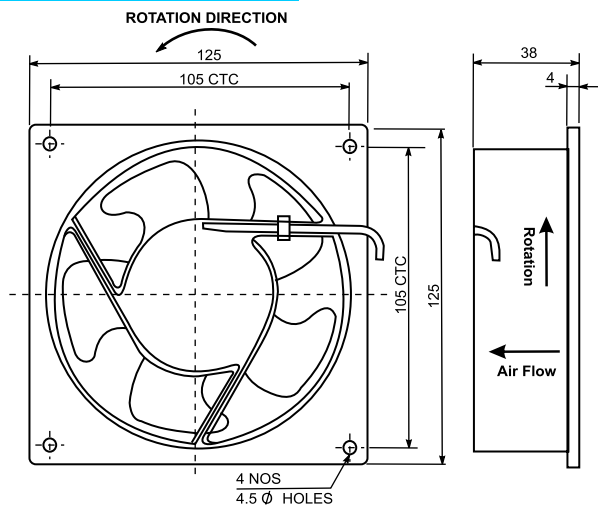
**125 x 125 x 38 mm**

**4" FAN**

<b>Motor</b>	: Shaded pole. Impedance protected.
<b>Frame (Housing)</b>	: Aluminium diecast. Black powder coated.
<b>Impellor</b>	: PBT + 30% fiber. UL94V-0
<b>Lead Wire</b>	: 1007#20AWG UL / CSA
<b>Insulation Resistance</b>	: Min. 10M Ohm at 500 VDC between terminal & the frame.
<b>Bearing Type</b>	: <span style="color: red;">●</span> Ball bearing Type <span style="color: blue;">○</span> Sleeve Type
<b>Operating Temp.</b>	: Ball bearing : Within - 20-80 °C. Sleeve bearing : Within --10-56°C
<b>Life Expectancy</b>	: Ball bearing : 50,000 hours at 60°C. Sleeve bearing : 20,000 hours at 45°C
<b>Above Measurements</b>	: At temp. Within 20-30°C.
<b>Above Measurements</b>	: At humidity 65% ±15%
<b>Net Weight</b>	: 510 grams

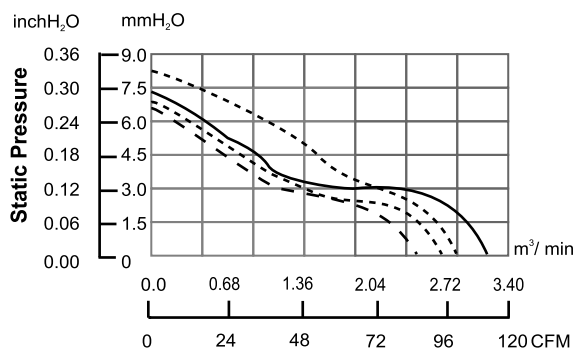


## DIMENSION



ALL ABOVE DIMENSIONS ARE IN mm

## AIR PERFORMANCE



## AIR FLOW DATA

## DESCRIPTION

MODEL NO.	BEARING	RATED VOLTAGE VAC	FREQ. Hz	CURRENT mA	INPUT POWER W	SPEED RPM	AIR FLOW CFM	STATIC PRESSURE mmH <sub>2</sub> O	NOISE dBA
12538 S1 H	<span style="color: blue;">○</span>	110 /115	50 / 60	310 / 270	25 / 22	2500 / 2700	88 / 109	8.3 / 9.4	45
12538 B1 H	<span style="color: red;">●</span>	110 /115	50 / 60	310 / 270	25 / 22	2500 / 2700	89 / 109	8.3 / 9.4	45
12538 S2 H	<span style="color: blue;">○</span>	220 /230	50 / 60	165 / 145	28 / 24	2500 / 2700	88 / 109	8.3 / 9.4	44
12538 B2 H	<span style="color: red;">●</span>	220 /230	50 / 60	165 / 145	28 / 24	2500 / 2700	89 / 109	8.4 / 9.5	44
12538 S 24	<span style="color: blue;">○</span>	24	50 / 60	550	20 / 22	2500 / 2700	86 / 95	8.1 / 9.1	44
12538 B 24	<span style="color: red;">●</span>	24	50 / 60	550	20 / 22	2500 / 2700	87 / 96	8.1 / 9.1	44

**12538:** 125 x 125 x 38mm    **1** : 110 V AC

**J** : Company Code    **2** : 220 V AC

**S** : Sleeve Bearing    **T** : Terminal

**B** : Ball Bearing    **W** : Lead wire

ABOVE PRODUCTS ARE  APPROVED AS PER SPECIFICATION IEC 60335-1:2001-05, IEC 60034-1:2004, CISPR 11: 2004.

# INSTRUMENT COOLING FAN

## SIZE

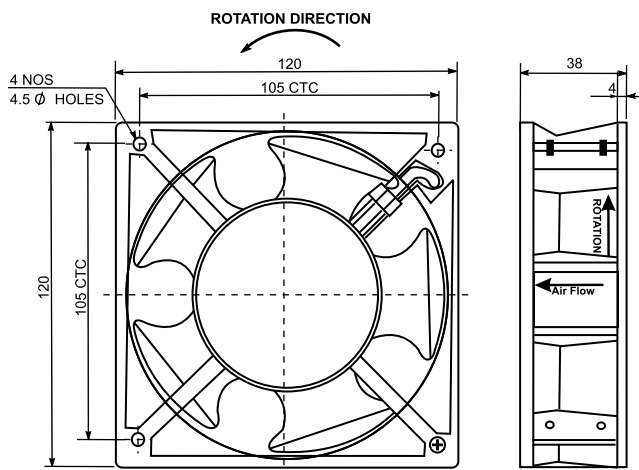
**120 x 120 x 38 mm**

**4" FAN**

<b>Motor</b>	: Shaded pole. Impedance protected.
<b>Frame (Housing)</b>	: Aluminium diecast. Black powder coated.
<b>Impellor</b>	: PBT + 30% fiber. UL94V-0
<b>Lead Wire</b>	: 1007#20AWG UL / CSA
<b>Insulation Resistance</b>	: Min. 10M Ohm at 500 VDC between terminal & the frame.
<b>Bearing Type</b>	: ● Ball bearing Type ○ Sleeve Type
<b>Operating Temp.</b>	: Ball bearing : Within -20-80 °C. Sleeve bearing : Within -10-56°C
<b>Life Expectancy</b>	: Ball bearing : 50,000 hours at 60°C. Sleeve bearing : 20,000 hours at 45°C
<b>Above Measurements</b>	: At temp. Within 20-30°C.
<b>Above Measurements</b>	: At humidity 65% ±15%
<b>Net Weight</b>	: 550 grams

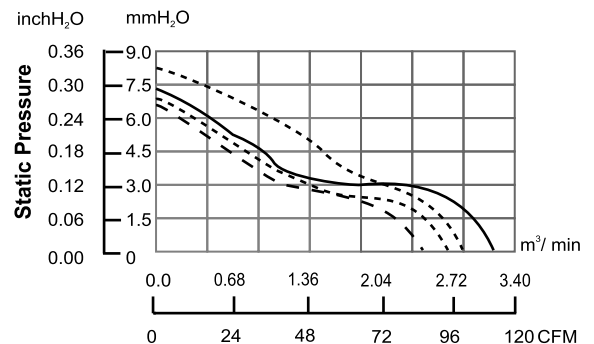


## DIMENSION



ALL ABOVE DIMENSIONS ARE IN mm

## AIR PERFORMANCE



AIR FLOW DATA

## DESCRIPTION

MODEL NO. J-	BEARING	RATED VOLTAGE VAC	FREQ. Hz	CURRENT mA	INPUT POWER W	SPEED RPM	AIR FLOW CFM	STATIC PRESSURE mmH <sub>2</sub> O	NOISE dBA
22038 S1 H	○	110 /115	50 / 60	310 / 270	25 / 22	2500 / 2700	88 / 109	8.3 / 9.4	45
22038 B1 H	●	110 /115	50 / 60	310 / 270	25 / 22	2500 / 2700	89 / 109	8.3 / 9.4	45
22038 S2 H	○	220 /230	50 / 60	165 / 145	28 / 24	2500 / 2700	88 / 109	8.3 / 9.4	44
22038 B2 H	●	220 /230	50 / 60	165 / 145	28 / 24	2500 / 2700	89 / 109	8.4 / 9.5	44
22038 S 24	○	24	50 / 60	550	20 / 22	2500 / 2700	86 / 95	8.1 / 9.1	44
22038 B 24	●	24	50 / 60	550	20 / 22	2500 / 2700	87 / 96	8.1 / 9.1	44

**22038:** 120 x 120 x 38mm    **1** : 110 V AC

**J** : Company Code            **2** : 220 V AC

**S** : Sleeve Bearing            **T** : Terminal

**B** : Ball Bearing                **W** : Lead wire

ABOVE PRODUCTS ARE CE APPROVED AS PER SPECIFICATION IEC 60335-1:2001-05, IEC 60034-1:2004, CISPR 11: 2004.

## SIZE

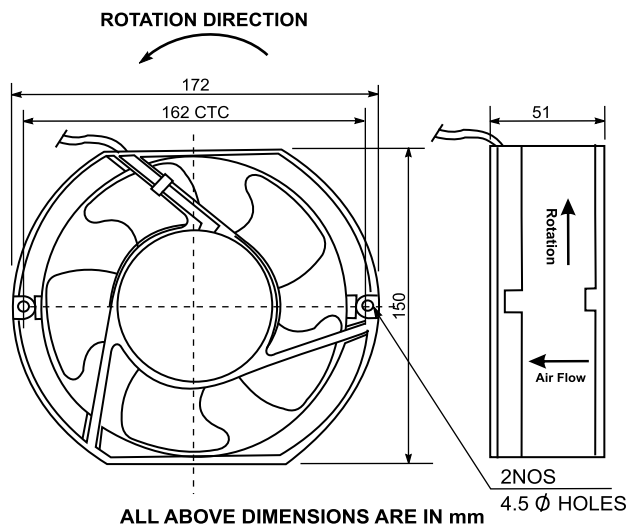
**172 x 150 x 51 mm**

**6" OVAL FAN**

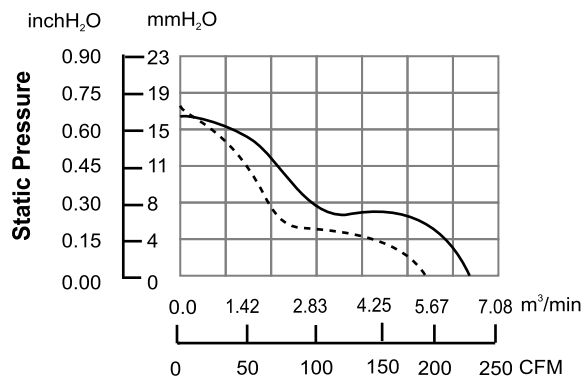
<b>Motor</b>	: Shaded pole. Impedance protected.
<b>Frame (Housing)</b>	: Aluminium diecast. Black powder coated.
<b>Impellor</b>	: PBT + 30% fiber. UL94V-0
<b>Lead Wire</b>	: 1015#20AWG UL / CSA
<b>Insulation Resistance</b>	: Min. 10M Ohm at 500 VDC between terminal & the frame.
<b>Bearing Type</b>	: <span style="color: red;">●</span> Ball bearing Type <span style="color: blue;">○</span> Sleeve Type
<b>Operating Temp.</b>	: Ball bearing : Within - 20-80 °C. Sleeve bearing : Within -10-56°C
<b>Life Expectancy</b>	: Ball bearing : 50,000 hours at 60°C. Sleeve bearing : 20,000 hours at 45°C
<b>Above Measurements</b>	: At temp. Within 20-30°C.
<b>Above Measurements</b>	: At humidity 65% ±15%
<b>Net Weight</b>	: 870 grams



## DIMENSION



## AIR PERFORMANCE



**AIR FLOW DATA**

## DESCRIPTION

MODEL NO. J-	BEARING	RATED VOLTAGE VAC	FREQ. Hz	CURRENT mA	INPUT POWER W	SPEED RPM	AIR FLOW CFM	STATIC PRESSURE mmH <sub>2</sub> O	NOISE dBA
17252 S1 H	<span style="color: blue;">○</span>	110 / 115	50 / 60	450 / 460	43 / 37	2500 / 2700	183 / 203	15 / 17	48
17252 B1 H	<span style="color: red;">●</span>	110 / 115	50 / 60	450 / 460	43 / 37	2500 / 2700	187 / 207	15 / 17	48
17252 S2 H	<span style="color: blue;">○</span>	220 / 230	50 / 60	250 / 280	48 / 43	2500 / 2700	183 / 203	15 / 18	48
17252 B2 H	<span style="color: red;">●</span>	220 / 230	50 / 60	250 / 280	48 / 43	2500 / 2700	187 / 207	15 / 18	48

**17252:** 172 x 150 x 51mm    **1** : 110 V AC

**J** : Company Code    **2** : 220 V AC

**S** : Sleeve Bearing    **H** : High speed

**B** : Ball Bearing    **W** : Lead wire

# INSTRUMENT COOLING FAN

## SIZE

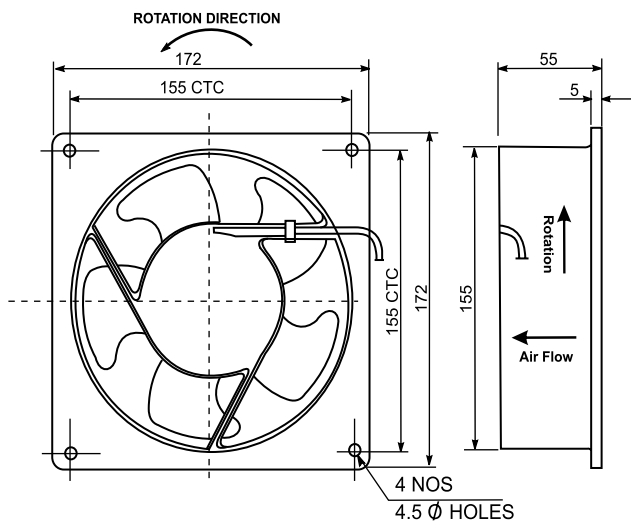
172 x 172 x 55 mm

6" SQUARE FAN

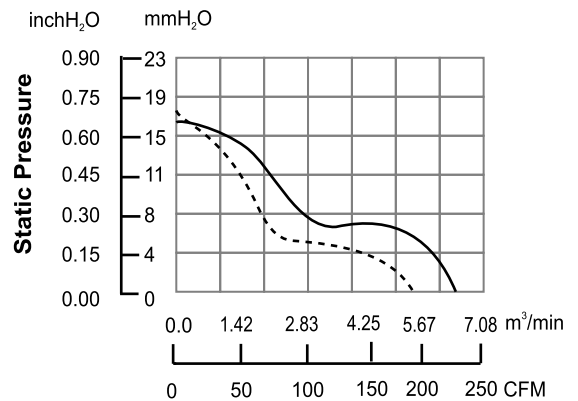
Motor	: Shaded pole. Impedance protected.
Frame (Housing)	: Aluminium diecast. Black powder coated.
Impellor	: PBT + 30% fiber. UL94V-0
Lead Wire	: 1007#20AWG UL / CSA
Insulation Resistance	: Min. 10M Ohm at 500 VDC between terminal & the frame.
Bearing Type	: ● Ball bearing Type ○ Sleeve Type
Operating Temp.	: Ball bearing : Within - 20-80 °C. Sleeve bearing : Within --10-56°C
Life Expectancy	: Ball bearing : 50,000 hours at 60°C. Sleeve bearing : 20,000 hours at 45°C
Above Measurements	: At temp. Within 20-30°C.
Above Measurements	: At humidity 65% ±15%
Net Weight	: 945 grams



## DIMENSION



## AIR PERFORMANCE



AIR FLOW DATA

## DESCRIPTION

MODEL NO. J-	BEARING	RATED VOLTAGE VAC	FREQ. Hz	CURRENT mA	INPUT POWER W	SPEED RPM	AIR FLOW CFM	STATIC PRESSURE mmH <sub>2</sub> O	NOISE dBA
17255 S1 H	○	110 /115	50 / 60	450/460	43 / 37	2500/2700	183 / 203	15 / 17	48
17255 B1 H	●	110 /115	50 / 60	450/460	43 / 37	2500/2700	187 / 207	15 / 17	48
17255 S2 H	○	220 /230	50 / 60	250/280	48 / 43	2500/2700	183 / 203	15 / 18	48
17255 B2 H	●	220 /230	50 / 60	250/280	48 / 43	2500/2700	187 / 207	15 / 18	48

17255: 172 x 172 x 55mm    1 : 110 V AC

J : Company Code    2 : 220 V AC

S : Sleeve Bearing    H :High speed

B : Ball Bearing    W : Lead wire

## SIZE

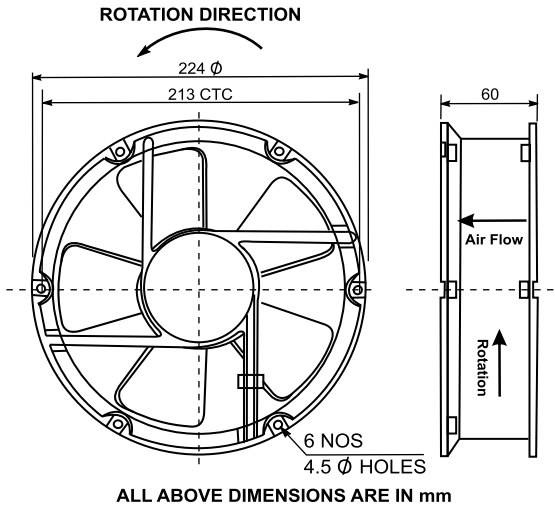
220  $\phi$  x 60 mm

8" ROUND FAN

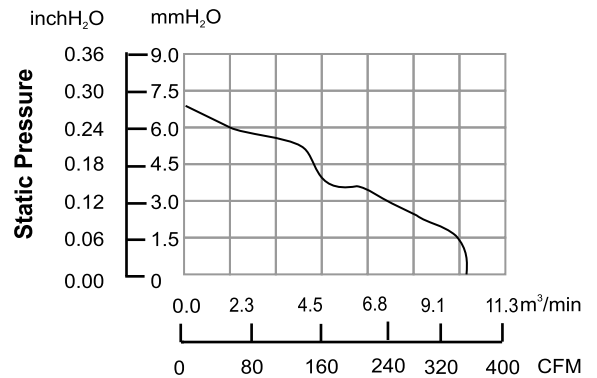
<b>Motor</b>	: Shaded pole. Impedance protected.
<b>Frame (Housing)</b>	: Aluminium diecast. Black powder coated.
<b>Impellor</b>	: PBT + 30% fiber. UL94V-0
<b>Lead Wire</b>	: 1015#20AWG UL / CSA
<b>Insulation Resistance</b>	: Min. 10M Ohm at 500 VDC between terminal & the frame.
<b>Bearing Type</b>	: <span style="color: red;">●</span> Ball bearing Type <span style="color: blue;">○</span> Sleeve Type
<b>Operating Temp.</b>	: Ball bearing : Within - 20-80 °C. Sleeve bearing : Within -10-56°C
<b>Life Expectancy</b>	: Ball bearing : 50,000 hours at 60°C. Sleeve bearing : 20,000 hours at 45°C
<b>Above Measurements</b>	: At temp. Within 20-30°C.
<b>Above Measurements</b>	: At humidity 65% $\pm$ 15%
<b>Net Weight</b>	: 1235 grams



## DIMENSION



## AIR PERFORMANCE



AIR FLOW DATA

## DESCRIPTION

MODEL NO. J-	BEARING	RATED VOLTAGE VAC	FREQ. Hz	CURRENT mA	INPUT POWER W	SPEED RPM	AIR FLOW CFM	STATIC PRESSURE mmH <sub>2</sub> O	NOISE dBA
22060 R B1	<span style="color: red;">●</span>	110/115	50/60	630/550	45/38	2500/2700	350/210	22 /14	56
22060 R B2	<span style="color: red;">●</span>	220/230	50/60	325/290	49/43	2500/2700	350/210	22 /14	56

NOTE: Fan is available with & without Thermister ○ Skelton Type Fan available ○ Fan is Lead wire Type

**22060:** 220  $\phi$  x 60mm    **1** : 110 V AC  
**J** : Company Code    **2** : 220 V AC  
**B** : Ball Bearing    **R** : Round Type



# INSTRUMENT COOLING FAN

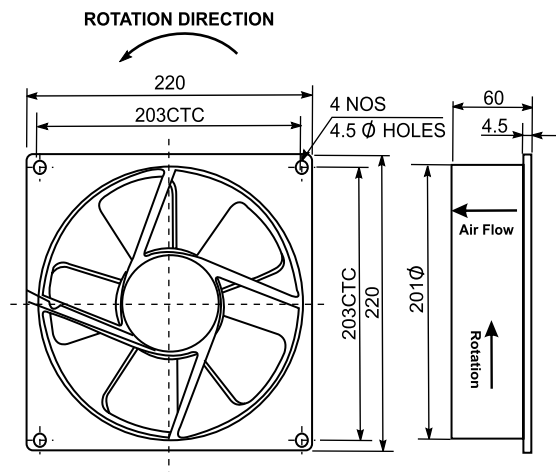
## SIZE

**220 x 220 x 60 mm**  
**8" SQUARE FAN**

<b>Motor</b>	: Shaded pole. Impedance protected.
<b>Frame (Housing)</b>	: Aluminium diecast. Black powder coated.
<b>Impellor</b>	: PBT + 30% fiber. UL94V-0
<b>Lead Wire</b>	: 1007#20AWG UL / CSA
<b>Insulation Resistance</b>	: Min. 10M Ohm at 500 VDC between terminal & the frame.
<b>Bearing Type</b>	: ● Ball bearing Type ○ Sleeve Type
<b>Operating Temp.</b>	: Ball bearing : Within - 20-80 °C. Sleeve bearing : Within --10-56°C
<b>Life Expectancy</b>	: Ball bearing : 50,000 hours at 60°C. Sleeve bearing : 20,000 hours at 45°C
<b>Above Measurements</b>	: At temp. Within 20-30°C.
<b>Above Measurements</b>	: At humidity 65% ±15%
<b>Net Weight</b>	: 1250 grams

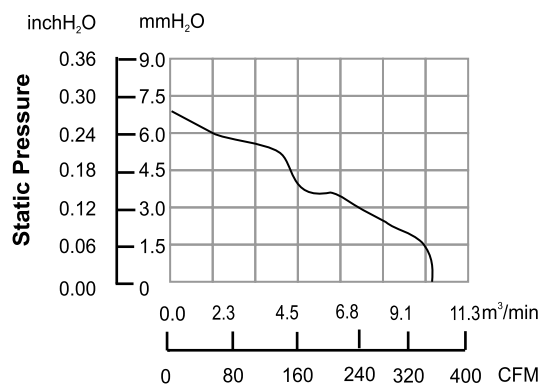


## DIMENSION



ALL ABOVE DIMENSIONS ARE IN mm

## AIR PERFORMANCE



## DESCRIPTION

MODEL NO. J-	BEARING	RATED VOLTAGE VAC	FREQ. Hz	CURRENT mA	INPUT POWER W	SPEED RPM	AIR FLOW CFM	STATIC PRESSURE mmH <sub>2</sub> O	NOISE dBA
22060 S B1	●	110/115	50/60	630/550	45/38	2500/2700	350/210	22/14	56
22060 S B2	●	220/230	50/60	325/290	49/43	2500/2700	350/210	22/14	56

NOTE: Fan is available with & without Thermister ○ Skelton Type Fan available ○ Fan is Lead wire Type

**22060**: 220 x 220 x 60mm    **1** : 110 V AC  
**J** : Company Code    **2** : 220 V AC  
**B** : Ball Bearing    **S** : Square Type

ABOVE PRODUCTS ARE CE APPROVED AS PER SPECIFICATION IEC 60335-1:2001-05, IEC 60034-1:2004, CISPR 11: 2004.

## SIZE

92 x 92 x 25 mm

3" SQUARE FAN

**Frame (Housing)** : Thermoplastic PBT+ 30%, UL94V-0

**Impellor** : Thermoplastic PBT+ 30%, UL94V-0

**Lead Wire** : 1007#20AWG UL / CSA

**Insulation Resistance** : Min. 10M Ohm at 500 VDC between terminal & the frame.

**Bearing Type** : ● Ball bearing Type

**Operating Temp.** : Ball bearing : Within - 30°C to +75 °C.

**Life Expectancy** : Ball bearing : 50,000 hours at 45°C

**Above Measurements** : At temp. Within 20-30°C.

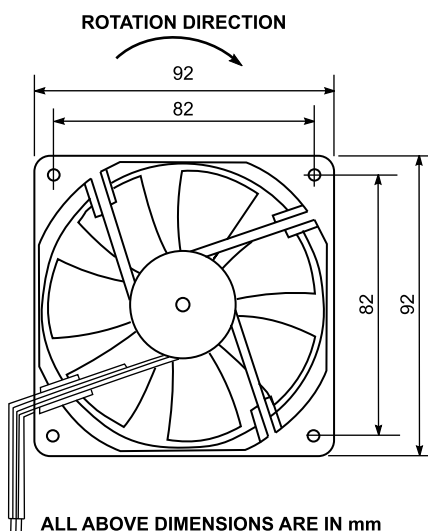
**Above Measurements** : At humidity 65% ±15%

**Net Weight** : 120 grams

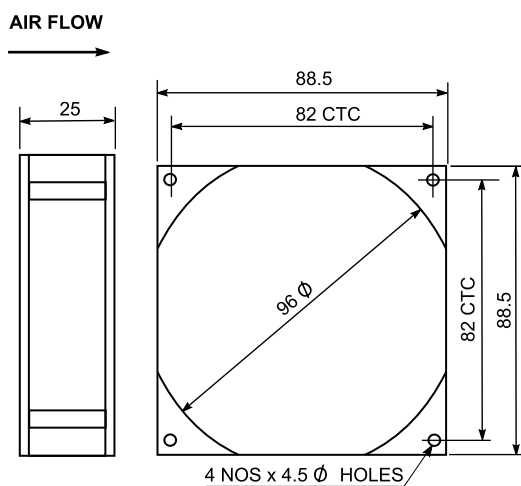
## DC BRUSHLESS FAN



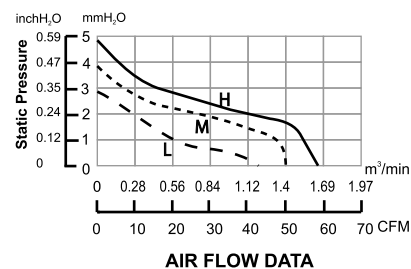
## DIMENSION



## MOUNTION PANEL CUTOUT



## AIR PERFORMANCE



ALL ABOVE DIMENSIONS ARE IN mm

## DESCRIPTION

MODEL NO. J-	BEARING	RATED VOLTAGE VAC	FREQ. Hz	CURRENT mA	INPUT POWER W	SPEED RPM	AIR FLOW CFM m <sup>3</sup> /min	MAX. AIR PRESSURE Inch H <sub>2</sub> O mm H <sub>2</sub> O	STATIC PRESSURE mmH <sub>2</sub> O	NOISE dBA
9225D12BH	●	12	50/60	0.32	3.84	3000	58.70 / 1.66	0.17 / 4.30	4.4/5.0	38
9225D12BM	●	12	50/60	0.20	2.40	2500	50.50 / 1.43	0.14 / 3.50	3.6/4.0	34
9225D12BL	●	12	50/60	0.16	1.92	2000	41.50 / 1.18	0.09 / 2.30	2.8/3.2	28
9225D24BH	●	24	50/60	0.18	4.32	3000	58.70 / 1.66	0.17 / 4.30	4.4/5.0	38
9225D24BM	●	24	50/60	0.14	3.36	2500	50.50 / 1.43	0.14 / 3.50	3.6/4.0	34
9225D24BL	●	24	50/60	0.10	2.40	2000	41.50 / 1.18	0.09 / 2.30	2.8/3.2	28

9225 : 92 X 92 X 25mm

J : Company Code 12 : 12 V DC

H : High speed 24 : 24 V DC

M : Medium speed L : Low speed

ABOVE PRODUCTS ARE CE APPROVED AS PER SPECIFICATION IEC 60335-1:2001-05, IEC 60034-1:2004, CISPR 11: 2004.

# INSTRUMENT COOLING FAN

## SIZE

120 x 120 x 38 mm

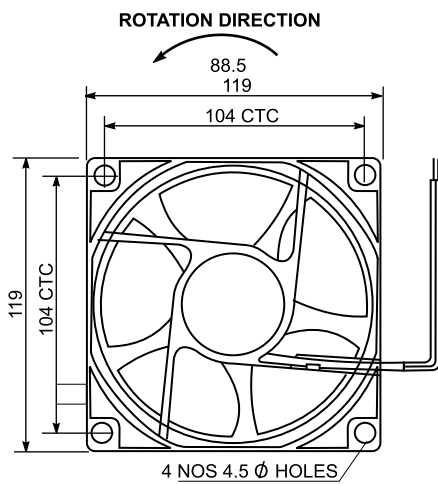
4" SQUARE FAN

Frame (Housing)	: Thermoplastic PBT+ 30%, UL94V-0
Impellor	: Thermoplastic PBT+ 30%, UL94V-0
Lead Wire	: 1007#20AWG UL / CSA
Insulation Resistance	: Min. 10M Ohm at 500 VDC between terminal & the frame.
Bearing Type	: ● Ball bearing Type
Operating Temp.	: Ball bearing : Within - 30°+ 75°C.
Life Expectancy	: Ball bearing : 50,000 hours at 60°C.
Above Measurements	: At temp. Within 20-30°C.
Above Measurements	: At humidity 65% ± 15%
Net Weight	: 420 grams

## DC BRUSHLESS FAN

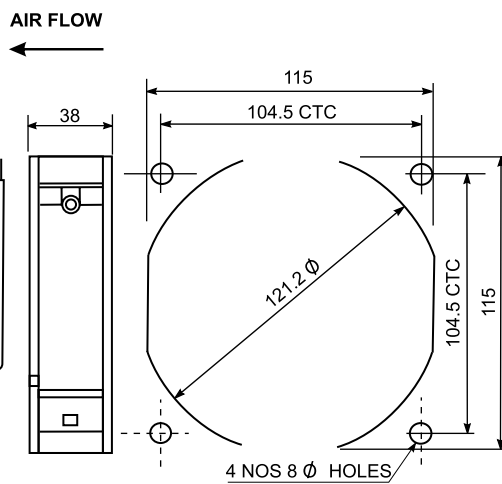


## DIMENSION

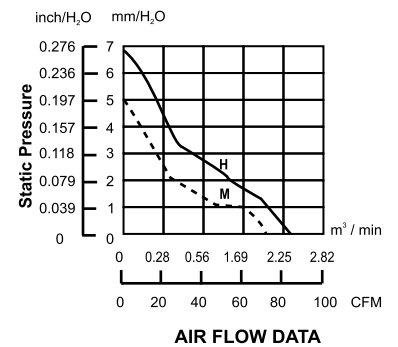


ALL ABOVE DIMENSIONS ARE IN mm

## MOUNTION PANEL CUTOUT



## AIR PERFORMANCE



## DESCRIPTION

MODEL NO. J-	BEARING	RATED VOLTAGE VAC	FREQ. Hz	CURRENT mA	INPUT POWER W	SPEED RPM	AIR FLOW CFM m <sup>3</sup> /min	MAX. AIR PRESSURE inch H <sub>2</sub> O mm H <sub>2</sub> O	STATIC PRESSURE mmH <sub>2</sub> O	NOISE dBA
12038D12BH	●	12	50/60	0.32	3.84	3000	85.00/2.41	0.23 / 5.85	7.00	48
12038D12BM	●	12	50/60	0.22	2.64	2500	66.83/2.01	0.15 / 3.89	5.50	40
12038D24BH	●	24	50/60	0.18	4.32	3000	85.00/2.41	0.23 / 5.85	7.00	48
12038D24BM	●	24	50/60	0.14	3.36	2500	66.83/2.01	0.15 / 3.89	5.50	40
12038D48BH	●	48	50/60	0.13	6.24	3000	85.00/2.41	0.23 / 5.85	7.00	48
12038D48BM	●	48	50/60	0.12	5.76	2500	66.83/2.01	0.15 / 3.89	5.50	40

12038: 120 x 120 x 38mm

J : Company Code 12 : 12 V DC

H : High speed 24 : 24 V DC

M : Medium speed 48 : 48 V DC

ABOVE PRODUCTS ARE CE APPROVED AS PER SPECIFICATION IEC 60335-1:2001-05, IEC 60034-1:2004, CISPR 11: 2004.



PHOENIX IMPEX

# INSTRUMENT COOLING FAN

## SIZE

172 x 150 x 51 mm

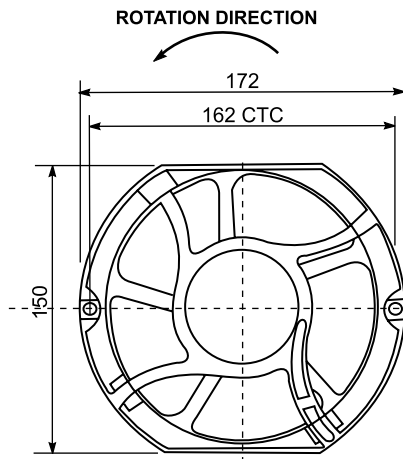
6" OVAL FAN

Frame (Housing)	: Die - Cast Aluminum, Painted Black
Impeller	: Thermoplastic PBT, UL94V-0
Lead Wire	: 1015#20AWG UL / CSA
Insulation Resistance	: Min. 10M Ohm at 500 VDC between terminal & the frame.
Bearing Type	: ● Ball bearing Type
Operating Temp.	: Ball bearing : Within - 20°C to +75°C.
Life Expectancy	: Ball bearing : 50,000 hours at 60°C.
Above Measurements	: At temp. Within 20-30°C.
Above Measurements	: At humidity 65% ±15%
Net Weight	: 792 grams

## DC BRUSHLESS FAN

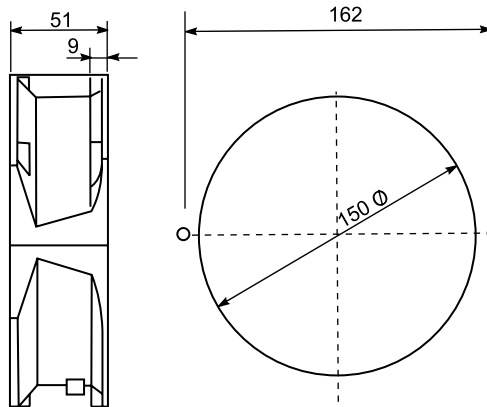


## DIMENSION

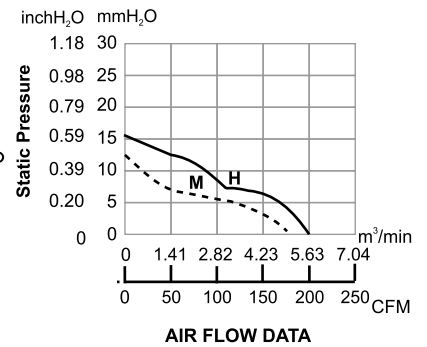


ALL ABOVE DIMENSIONS ARE IN mm

## MOUNTION PANEL CUTOUT



## AIR PERFORMANCE



## DESCRIPTION

MODEL NO. J-	BEARING	RATED VOLTAGE VAC	FREQ. Hz	CURRENT mA	INPUT POWER W	SPEED RPM	AIR FLOW CFM m³/min	MAX. AIR PRESSURE Inch H <sub>2</sub> O mm H <sub>2</sub> O	STATIC PRESSURE mmH <sub>2</sub> O	NOISE dBA
9725D12H	●	12	50/60	1.40	16.80	3000	203/5.75	0.62/15.75	16.0/16.5	56
9725D12M	●	12	50/60	0.85	10.20	2600	175/4.96	0.47/11.94	12.0/12.5	52
9725D24H	●	24	50/60	0.65	16.00	3000	203/5.75	0.62/15.75	16.0/16.5	56
9725D24M	●	24	50/60	0.44	10.50	2600	175/4.96	0.47/11.94	12.0/12.5	52
9725D48H	●	48	50/60	0.35	17.00	3000	203/5.75	0.62/15.75	16.0/16.5	56
9725D48M	●	48	50/60	0.28	13.00	2600	175/4.96	0.47/11.94	12.0/12.5	52

ALSO AVAILABLE IN SQUARE MODEL

9725 : 172 X 150 X 51mm

J : Company Code 12 : 12 V DC

H : High speed 24 : 24 V DC

M : Medium speed 48 : 48 V DC

ABOVE PRODUCTS ARE CE APPROVED AS PER SPECIFICATION IEC 60335-1:2001-05, IEC 60034-1:2004, CISPR 11: 2004.



# AIR VENT / FINGER GUARD



**JSAV-011**  
90mm x 90mm Screw Fit  
Material ABS  
Suitable with 3" FAN



**JSAV-01**  
130mm x 130mm Screw Fit  
Material ABS  
Suitable with 4" FAN



**JSAV-02**  
147mm x 147mm Snap Fit  
Material ABS  
Suitable with 4" FAN



**JSAV-03**  
184mm x 184mm Screw Fit  
Material ABS.  
Suitable with 6" FAN



**JSAV-04**  
203mm x 203mm Snap Fit  
Material ABS  
Suitable with 6" FAN



**JSAV-05**  
238mm x 238mm Screw Fit  
Material ABS.  
Suitable with 8" FAN



**JSAV-06**  
255mm x 255mm Snap Fit  
Material ABS  
Suitable with 8" FAN



**SAV-09**  
325mm x 325mm Snap Fit  
Material ABS

## Fan Filter [IP-54 FK 55]

Size-150mmx150mm  
with EPDM Gasket  
snap types



**CAT NO.: JSAV-5522**  
Colour-RAL-7035  
Material-ABS Powder

## Fan Filter [IP-54 Fk55]

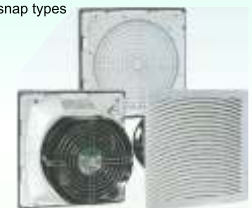
Size-204mmx204mm  
with EPDM Gasket  
snap types



**CAT NO.: JSAV-5523**  
Colour-RAL-7035  
Material-ABS Powder

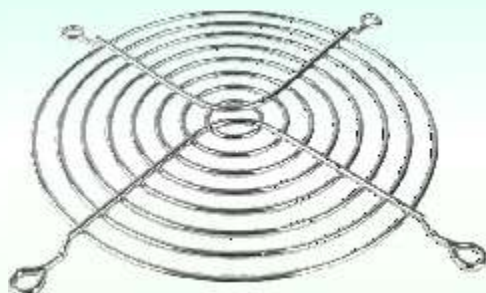
## Fan Filter [IP-54 FK 55]

Size-250mmx250mm  
with EPDM Gasket  
snap types



**CAT NO.: JSAV-5525**  
Colour-RAL-7035  
Material-ABS Powder

## Fan Finger Guard



## Fan Finger Guard

Size-120mmx120mm  
snap types



**CAT NO.: JSFG-01**  
Colour-RAL-7035, 7032  
Material-ABS Powder

## Fan Filter [IP-54 FK 55]

Size-325mmx325mm  
with EPDM Gasket  
snap types

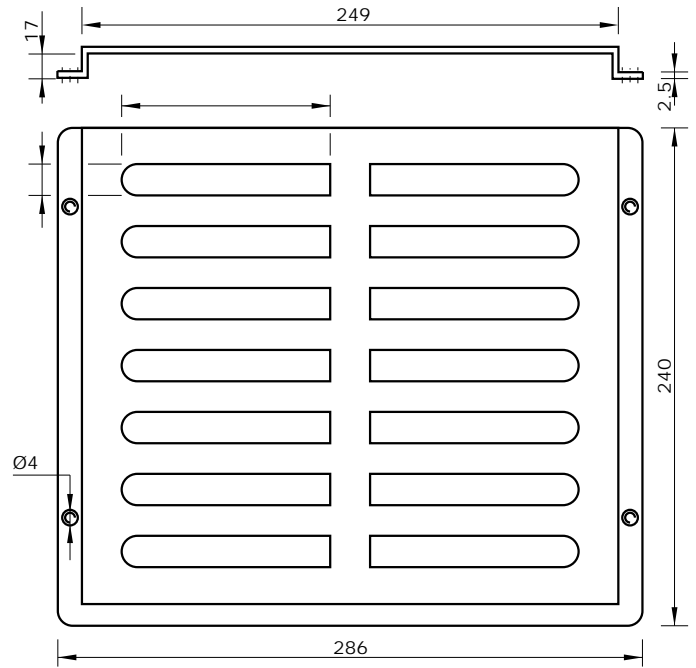


**CAT NO.: JSAV-5526**  
Colour-RAL-7035  
Material-ABS Powder

17mm Deep  
for A4 paper size



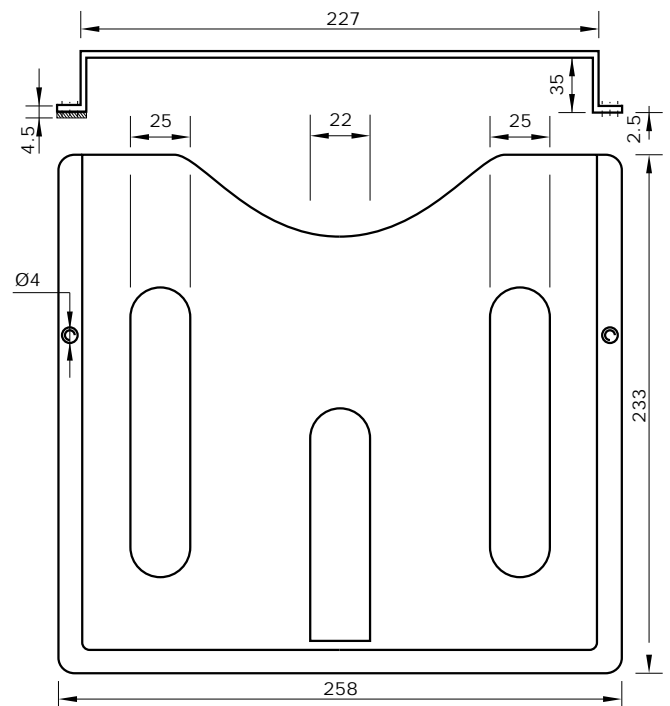
PDOC-A4-17



35mm deep  
for A4 paper size



PDOC-A4-35





## GROMMET OPEN / CLOSE

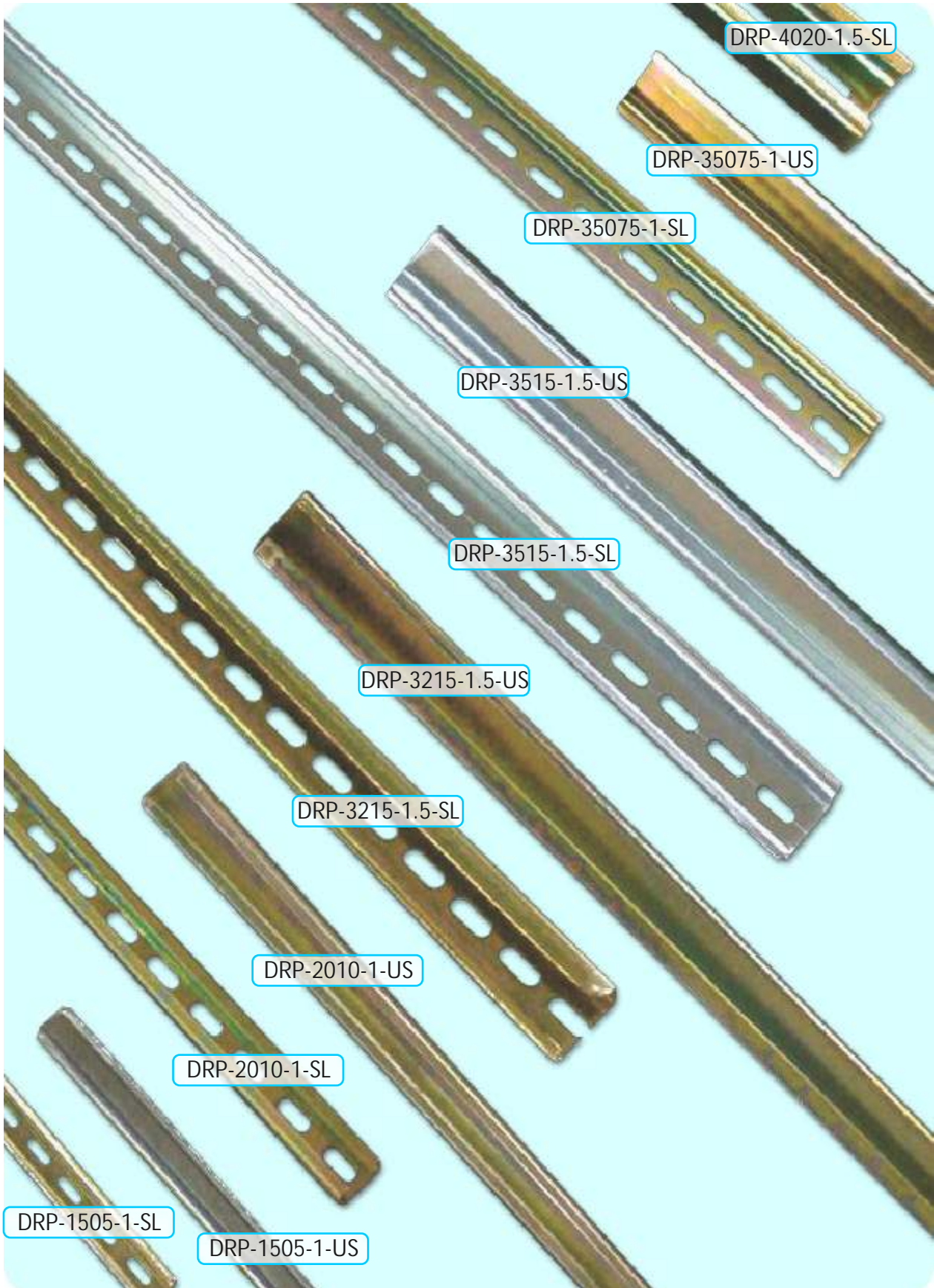


Part Number	Size(Inch)	Size(mm)	Open PVC	Open Rubber
PPGBO -06	1/4"	6mm		-
PPGBO -10	3/8"	10mm		
PPGBO -12	1/2"	12mm		
PPGBO -16	5/8"	16mm		
PPGBO -20	3/4"	20mm		
PPGBO -22	7/8"	22mm		
PPGBO -25	1"	25mm		
PPGBO -32	1-1/4"	32mm		
PPGBO -38	1-1/2"	38mm		
PPGBO -45	1-3/4"	45mm	-	
PPGBO -50	2"	50mm		
PPGBO -57	2-1/4"	57mm	-	
PPGBO -63	2-1/2"	63mm		
PPGBO -70	2-3/4"	70mm	-	-
PPGBO -76	3"	76mm		-







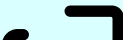
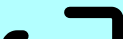






Part Number	Size(Inch)	Size(mm)	Open PVC	Open Rubber
PPGBC-06	1/4"	6mm		-
PPGBC-10	3/8"	10mm		
PPGBC-12	1/2"	12mm		
PPGBC-16	5/8"	16mm		
PPGBC-20	3/4"	20mm		
PPGBC-22	7/8"	22mm		
PPGBC-25	1"	25mm		
PPGBC-32	1-1/4"	32mm		
PPGBC-38	1-1/2"	38mm		
PPGBC-45	1-3/4"	45mm	-	
PPGBC-50	2"	50mm		
PPGBC-57	2-1/4"	57mm	-	
PPGBC-63	2-1/2"	63mm		
PPGBC-70	2-3/4"	70mm	-	-
PPGBC-76	3"	76mm		-

- Material : Rubber EPDM
- Material : Plastic PVC HRC 60 - 65. (Soft)
- Suitable for 2 mm, 2.5 mm & 3 mm Sheet
- While ordering specify with pre?x R for Rubber & P for PVC



## DINRAILS

Part Number	Profile	Size	Slot	Std. Length
PRP-35075-1-SL		35mm x 7.5mm x 1mm	18mm x 6.3mm	2 meters
PRP-35075-1-US		35mm x 7.5mm x 1mm	Unslotted	2 meters
PRP-3515-1.5-SL		35mm x 7.5mm x 1.5mm	18mm x 6.3mm	2 meters
PRP-3515-1.5-US		35mm x 7.5mm x 1.5mm	Unslotted	2 meters
PRP-1505-1-SL		15mm x 5mm x 1mm	18mm x 6.3mm	1 meter
PRP-1505-1-US		15mm x 5mm x 1mm	Unslotted	1 meter
PRP-3215-1.5-SL		32mm x 15mm x 1.5mm	18mm x 6.3mm	2 meters
PRP-3215-1.5-US		32mm x 15mm x 1.5mm	Unslotted	2 meters
PRP-2010-1-SL		20mm x 10mm x 1mm	18mm x 6.3mm	2 meters
PRP-2010-1-US		20mm x 10mm x 1mm	Unslotted	2 meters
PRP-4020-1.5-SL		40mm x 20mm x 1.5mm	18mm x 6.3mm	2 meters
PRP-4020-1.5-US		40mm x 20mm x 1.5mm	Unslotted	2 meters

### DIN RAIL Specification

**Finishing & Coating :**

Yellow Zinc Passivated  
 Yellow Zinc Passivated RoHS Trivalent  
 White Zinc Passivated RoHS Trivalent

**Slot :**

Available slot 5.2mm x 18mm / 6.3mm x 25mm  
 Can be produced in specified slot shape and size

**Length :**

Customised length can be produced

**Material :**

Mild Steel  
 As per BS 513 or EN60715

## BRASS EARTH & NEUTRAL LINKS

**BRASS NEUTRAL LINK WITH  
DIN RAIL MOUNTING BASE  
7 HOLES**



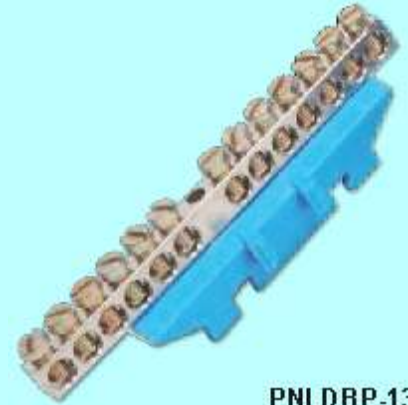
**PNLDSP-07**

**BRASS NEUTRAL LINK WITH  
DIN RAIL MOUNTING BASE  
10 HOLES**



**PNLDBP-10**

**BRASS NEUTRAL LINK WITH  
DIN RAIL MOUNTING BASE**



**PNLDBP-13**



### NEUTRAL LINKS MATERIAL

Free Cutng Brass IS 319 Type (I) or  
Free Cutng Brass As Per BS 249 Type (I) or  
High Grade Free Cutng Brass

Any Special Brass Material Compositon As Per Customers Requirement.

### Length / Size :

Begins from M2 or equivalent threads and up to any size as per Custom Designs or requirements

### Finish and Coatng :

Natural, Nickel Plated, Tin Plated or any coatng as per customer speci?caton.

Any kind of neutral links, brass neutral links, neutral bars, terminal blocks, terminal bars, Earthing block, Earthing bars, brass electrical neutral links can be developed and supplied exactly as per customer speci?catons.



## DB/NEUTRAL LINK SUPPORTS

**POLYAMIDE SUPPORT**



**PPNB-01**

**BAKELITE SUPPORT**



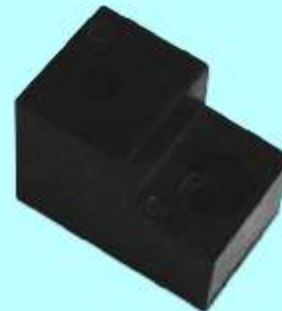
**PBNB-01**

**BAKELITE SUPPORT**



**PBNB-02**

**BAKELITE 'L' SUPPORT**



**PBNB-03**

**PLASTIC SUPPORT**



**PPNB-02**

**DMC SUPPORT**



**PDNB-5-01**



# ROTARY CAM SWITCHES

Select cam switches offer versatile design flexibility for complex switching programs & customization. For reliable and stable electrical & mechanical endurance double butt contacts with silver bi-metal on copper are provided. Select rotary cam switches incorporate most common options & provide a wide range of operating knobs & front plates.



Model SP-12



Model PS-6/10



Model PG-16



Model PS-16



Model PS-25/32

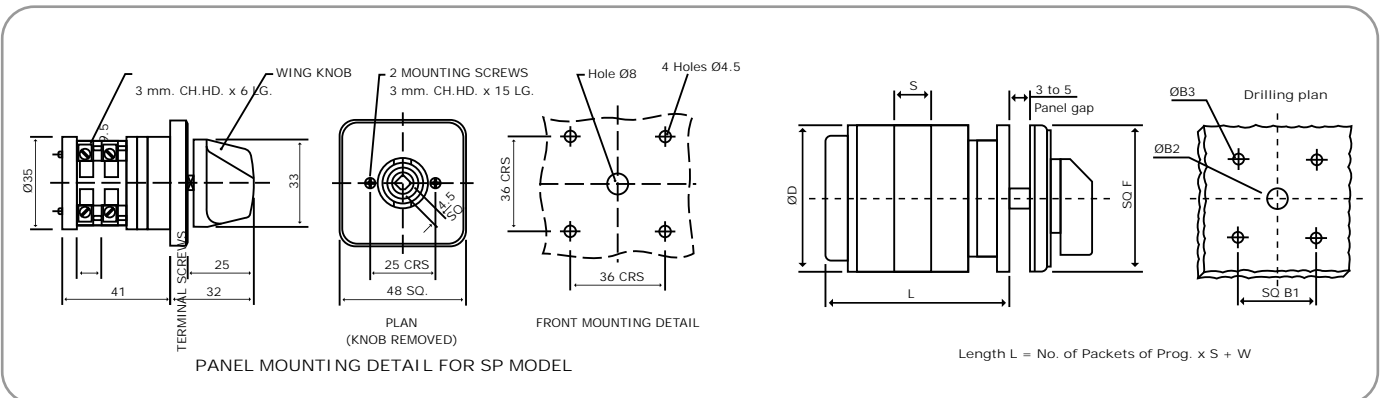
## FRONT MOUNTINGS

### Features :

- ∴ Standard 4 hole front panel mounting
- ∴ Knob/Handle operatable
- ∴ Suitable for all switching angles & spring return switches
- ∴ Front assembly in 4 different colours :  
Yellow/Red, Gray/Black, Black/Black & Aluminum ?nish



Model PS-40/63



Type	B1	B2	B3	D	F	S	W	MAX
PS6 PS10	36	9	4.5	32.5	48	9.5	18	12
PG16 PS16	36	12	4.5	46	48	12	25.5	21
PS25 PS32	48	12	5.5	52	64	15	27	15
PS40 PS63	68	15	5.5	76	88	21	32.5	10

## COLOUR COMBINATIONS












# ROTARY CAM SWITCHES

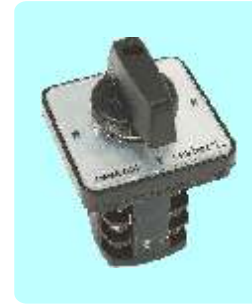
## MODEL PSP-12













Switching	Pole	Part No.
ON-OFF 	1	SP1160
	2	SP2160
	3	SP3260
	4	SP4260
TWO WAY NO OFF 	1	SP116B
	2	SP226B
	3	SP336B
	4	SP446B
TWO WAY WITH OFF 	1	SP116BO
	2	SP226BO
	3	SP336BO
	4	SP446BO
THREE WAY NO OFF 	1	SP126C
	2	SP236C
	3	SP356C
	4	SP446C
THREE WAY WITH OFF 	1	SP124CO
	2	SP234CO
	3	SP354CO
	4	SP464CO
FOUR WAY NO OFF 	1	SP126D
	2	SP246D
	3	SP366D
	4	SP486D
FOUR WAY WITH OFF 	1	SP136DO
	2	SP256DO
	3	SP386DO
	4	SP4106DO




Up to 12 position & up to 4 pole Rotary Cam Switches in model SP-12/PS-6 & PS-10 are available.


## MODEL PPS-6/PPS-10




Switching	Pole	Part No.
ON-OFF 	1	SP001
	2	SP002
	3	SP003
	4	SP004
TWO WAY NO OFF 	1	SP037
	2	SP038
	3	SP039
	4	SP040
TWO WAY WITH OFF 	1	SP025
	2	SP026
	3	SP027
	4	SP028
THREE WAY NO OFF 	1	SP049
	2	SP069
	3	SP089
	4	SP120
THREE WAY WITH OFF 	1	SP060
	2	SP080
	3	SP100
	4	SP131
FOUR WAY NO OFF 	1	SP050
	2	SP070
	3	SP090
	4	SP121
FOUR WAY WITH OFF 	1	SP061
	2	SP081
	3	SP101
	4	SP132

VOLTMETER SELECTOR				
Switching	Pole	Amp	Part No.	Description
	3	12	SP339VP	Voltage between phases with OFF 4 position 90°
	3	12	SP439VN	Voltage between phases & Neutral with OFF 4 position 90°
	3	12	SP444VPN	Voltage between phases & between each phases & Neutral with OFF 8 position 45°

VOLTMETER SELECTOR				
Switching	Pole	Amp	Part No.	Description
	3	6/10	SP312	Voltage between phases with OFF 4 position 90°
	3	6/10	SP311	Voltage between phases & Neutral with OFF 4 position 90°
	3	6/10	SP313	Voltage between phases & between each phases & Neutral with OFF 8 position 45°

AMMETER SELECTOR				
Switching	Pole	Amp	Part No.	Description
	3	12	SP349AP	Current in each phase with OFF 4 position 90°

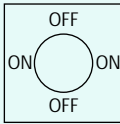
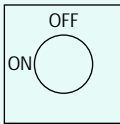
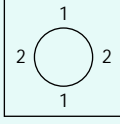
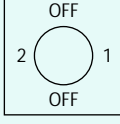
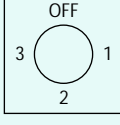
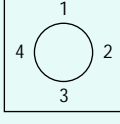
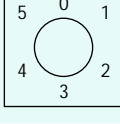
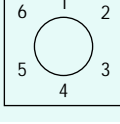
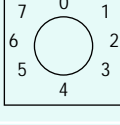
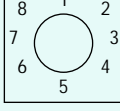
AMMETER SELECTOR				
Switching	Pole	Amp	Part No.	Description
	3	6/10	SP325	Current in each phase with OFF 4 position 90°




## MODEL PG-16





## MODEL PS-16



Switching	Pole	Part No.
ON-OFF 	1	SP195
	2	SP198
	3	SP197
	4	SP196
ON-OFF 	1	SP191
	2	SP192
	3	SP199
	4	SP194
TWO WAY NO OFF 	1	SP037
	2	SP038
	3	SP039
	4	SP040
TWO WAY WITH OFF 	1	SP151
	2	SP152
	3	SP153
	4	SP154
THREE WAY WITH OFF 	1	SP060
	2	SP080
	3	SP100
	4	SP131
FOUR WAY NO OFF 	1	SP050
	2	SP070
	3	SP090
	4	SP121
FIVE WAY WITH OFF 	1	SP062
	2	SP082
	3	SP0102
SIX WAY NO OFF 	1	SP052
	2	SP072
	3	SP092
SEVEN WAY WITH OFF 	1	SP064
	2	SP084
	3	SP104
EIGHT WAY NO OFF 	1	SP054
	2	SP074
	3	SP094

VOLTMETER SELECTOR				
Switching	Pole	Amp	Part No.	Description
	3	16	SP312	Voltage between phases with OFF 4 position 90°
	3	16	SP311	Voltage between phases & Neutral with OFF 4 position 90°
	3	16	SP313	Voltage between phases & between each phases & Neutral with OFF 8 position 45°

AMMETER SELECTOR				
Switching	Pole	Amp	Part No.	Description
	3	16	SP325	Current in each phase with OFF 4 position 90°
	3	16	SP710	Direct Reading Ammeter Selector Switches without CT's

# ROTARY CAM SWITCHES

**MODEL PPS-25(25 Amperes)**



**MODEL PPS-32(32 Amperes)**



**MODEL PPS-40(40 Amperes)**



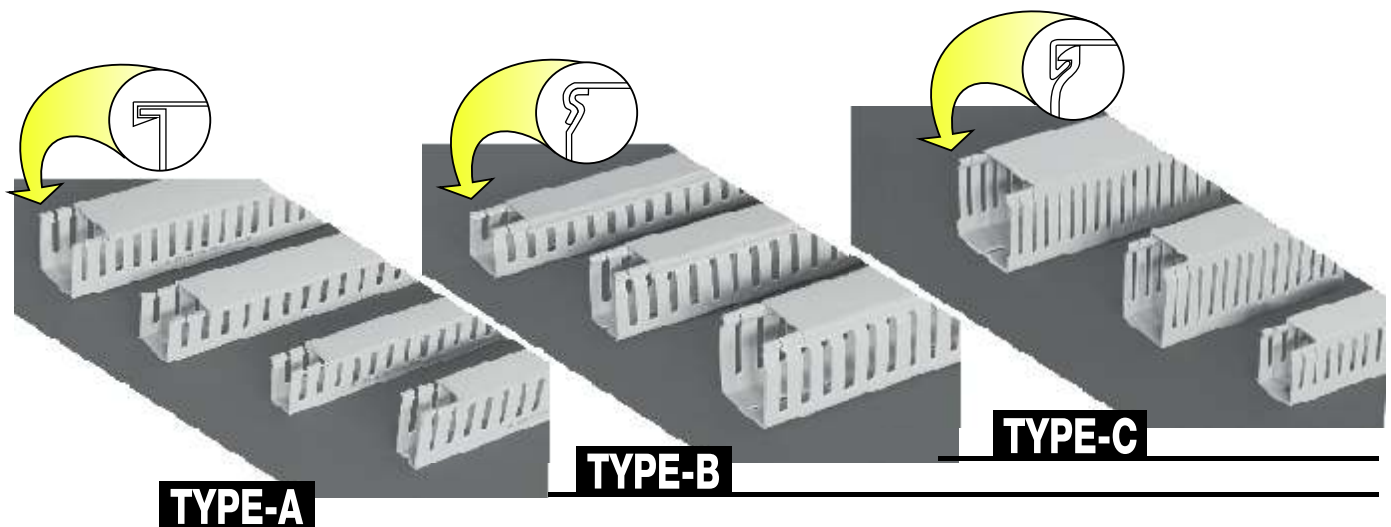
**MODEL PPS-63(63 Amperes)**



Switching	Pole	Part No.
ON-OFF 	1	SP195
	2	SP198
	3	SP197
	4	SP196
ON-OFF 	1	SP191
	2	SP192
	3	SP199
	4	SP194
TWO WAY NO OFF 	1	SP037
	2	SP038
	3	SP039
	4	SP040
TWO WAY WITH OFF 	1	SP151
	2	SP152
	3	SP153
	4	SP154
THREE WAY WITH OFF 	1	SP060
	2	SP080
	3	SP100
	4	SP131
FOUR WAY NO OFF 	1	SP050
	2	SP070
	3	SP090
	4	SP121
FIVE WAY WITH OFF 	1	SP062
	2	SP082
	3	SP0102
SIX WAY NO OFF 	1	SP052
	2	SP072
	3	SP092
SEVEN WAY WITH OFF 	1	SP064
	2	SP084
	3	SP104
EIGHT WAY NO OFF 	1	SP054
	2	SP074
	3	SP094



# PVC WIRING CHANNELS (CABLE DUCTS)



We introduce ourselves as manufactures of THE **SFX** BRAND of high Quality PVC Channels. We adhere to international standards in all processes of manufacturing, thus ensuring a product which meets the highest level of Quality & Safety.

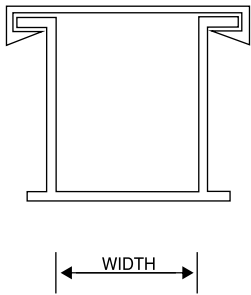
#### Our salient features are :

- ❖ Made of Rigid Poly Vinyl Chloride (PVC) of high Tensile & Compressive Strength.
- ❖ Highly durable, will not Crack, Peel or Chip, also resistant to Oil, Fungus, Salt Solutions etc.
- ❖ Non Brittle, Non Inflammable and also Warp Proof.
- ❖ Fast & Efficient locking Guaranteed because of Specially Designed Duct & Cover.
- ❖ Slotting Patterns Prevents Wire from Popping up, While Removing Cover.
- ❖ Elongated Slots at the Bottom makes Flexible Mounting Possible.
- ❖ Special orders regarding Colours, Length or Modification of Existing range can be manufactured as per your Specification on requirement.

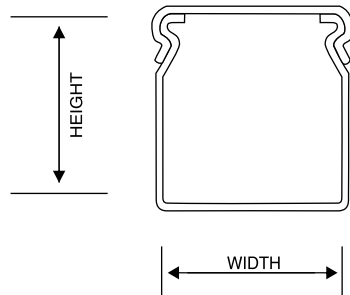
## PVC WIRING CHANNELS



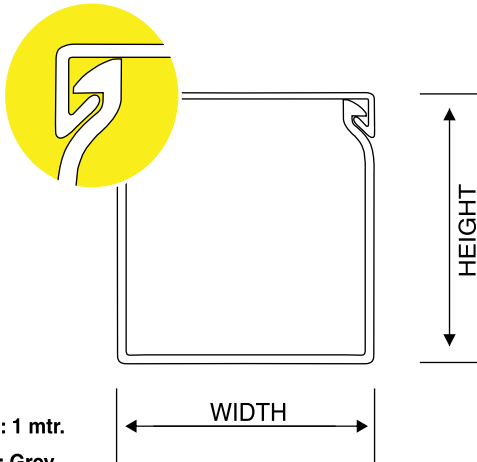
**TYPE - A**



**TYPE - B**



**TYPE - C**



Standard Length : 1 mtr.  
Standard Colour : Grey.

Sr. No.	Section Size Height X Width (mm <sup>2</sup> )	Single Core Unsheathed Cable Cable Housing Capacity No of Wires		
		OD 2.95 mm 1.5 mm <sup>2</sup>	OD3.65 mm 2.5 mm <sup>2</sup>	OD 4.35 mm 4 mm <sup>2</sup>
1	15 X 15	13	8	6
2	15 X 25	22	14	10
3	25 X 25	36	23	17
4	30 X 25	43	28	20
5	40 X 30	69	45	32
6	45 X 25	65	42	30
7	45 X 30	78	51	36
8	45 X 45	116	76	54
9	45 X 60	155	101	71
10	60 X 25	86	56	40
11	60 X 45	155	101	71
12	60 X 60	207	135	95
13	75 X 25	108	70	50
14	75 X 45	194	126	89
15	75 X 60	225	165	128
16	75 X 75	323	211	149
17	100 X 75	431	281	198
18	100 X 100	575	375	264

Sl. No.	Channel with Cover W x H (mm)	Cable Housing Capacity (Nos)		
		1.5 mm <sup>2</sup> OD 3.18mm (16 AWG)	2.5 mm <sup>2</sup> OD 3.53mm (14 AWG)	4.0 mm <sup>2</sup> OD 4.01mm (12 AWG)
1	25 x 25	19	15	12
2	25 x 30	37	30	23
3	25 x 40	48	39	31
4	25 x 60	72	57	45
5	25 x 80	92	75	59
6	25 x 100	126	105	81
7	40 x 40	81	65	51
8	40 x 60	121	98	77
9	40 x 80	160	130	102
10	40 x 100	200	164	128
11	60 x 60	180	146	114
12	60 x 80	246	199	156
13	60 x 100	308	247	194
14	80 x 60	251	203	159
15	80 x 80	337	272	214
16	80 x 100	416	332	248
17	100 x 80	425	344	270
18	100 x 100	531	429	336
19	150 x 100	805	653	512

## New Development : FRLS Grade Channels in all Sizes

### SPECIFICATIONS - POLYVINYL CHLORIDE (PVC)

#### Physical Properties Measured at 23°C

Specific Gravity	: 1.4	Water Absorption	: 0.10% in 24 hrs.
Compressive Strength	: 540 kg/cm <sup>2</sup>	Hardness	: 70 Duro D
Tensile Strength	: 390 kg/cm <sup>2</sup>	Dielectric Constant	: 1.7 (60cps at 30°C)
Flexural Strength	: 727 kg/cm <sup>2</sup>	Power Factor	: 2.52 (60 cps at 30°C)
Impact Resistance	: 3.6 cm kg/cm <sup>2</sup>	Dielectric Strength	: 30 Kv/mm
Working Temperature	: 65°C and below	Burning Rate	: Self Extinguishing
Specific Heat	: 0.22 Cal <sup>o</sup> /C/gm	Modulus Elasticity in tension	: 19.800 kg/cm <sup>2</sup>
Thermal Expansion	: 0.063 mm/m <sup>o</sup> C		
Thermal Conductivity	: 4.0 Cal / secsq.cm/C <sup>o</sup> /cmx10 <sup>4</sup> )		

(For Guidance Only)



Sr. No.	Size	Suitable for Bus Bars (Size in mm)
1	17 mm	8x4, 6x6, 10x3
2	20 mm	12x3, 9x6
3	25 mm	15x3, 12x6
4	30 mm	20x3, 16x6, 16x3
5	35 mm	25x3, 20x6
6	41 mm	26x6, 25x9
7	48 mm	30x10, 30x6, 25x12
8	55 mm	36x6, 30x12
9	61 mm	40x10, 40x6, 38x12, 36x9
10	73 mm	50x6
11	81 mm	50x12, 50x10
12	85 mm	60x6
13	93 mm	75x6
14	103 mm	75x12
15	110 mm	90x2, 90x6
16	128 mm	100x9, 100x6
17	140 mm	100x12
18	170 mm	125x10, 125x6
19	190 mm	150x12, 150x10, 150x6
20	210 mm	175x12, 175x10, 175x6
21	230 mm	200x12

**Thickness : 160 To 180 Micron**

**Colour : Red, Yellow, Blue, Black**

**Unit : 50 Meters Roll**

*Heat shrinkable sleeving method of providing insulation is the latest modern technology and is superior to conventional methods like taping, painting etc.*

### **Bus Bar Application :**

It provides perfect electrical insulation to be bus bars of low tension systems in control panels and switchgear systems.

### **Properties :**

- Working Temperature	- 90°C
- Dielectric Strength	- 20 Kv/mm
- Insulation Resistance	- 20 x 10 <sup>10</sup> ohms at 500 V DC
- Tensile Strength	- Min 400 kg/cm
- Ultimate Elongation	- Min 11%
- Chemical Resistance	- Good
- Fire Resistance	- Self Extinguishing
- Shrinking Temperature	- 150°C - 170°C for 4 - 5 minutes
- Mechanical Strength	- Excellent
- Heat Dissipation	- Excellent



## METER VIEWING WINDOWS



**Snap Fit**

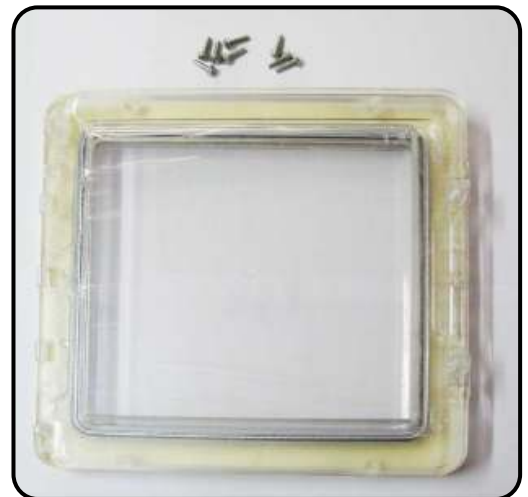


**Screw Fit**



**Meter Viewing Window** offered comprise inspection windows that are quality constructed so as to matchup with the demands of standards as followed internationally. With windows IP 66 rated and in UV protective finish, these windows are of transparent color.

Material – Polycarbonate, Cutout Size - 92 x 92



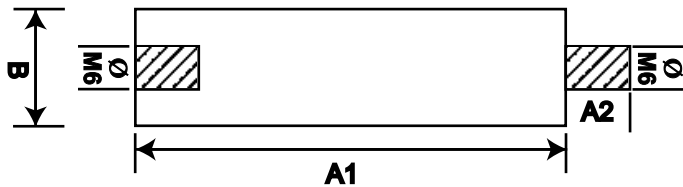
**Meter Windows** offered come with option of lockable door that make these secure in terms of finish. Further, these come in high impact & temperature resistant finish as well as can also be provided with seal options. These also come with studs for fixing mounting plate and for superior durability; these are produced from quality material in conformance to international standards and specifications, Mostly used for Energy Meters

Material – Polycarbonate, Viewable area - 150 x 150

## HEXAGONAL METAL SPACERS



Part Number	A1	A2	B	Ø
PHSP-6-10	10mm	7	10	M6
PHSP-6-15	15mm	8	10	M6
PHSP-6-20	20mm	10	10	M6
PHSP-6-25	25mm	10	10	M6
PHSP-6-30	30mm	10	10	M6
PHSP-6-35	35mm	10	10	M6
PHSP-6-40	40mm	10	10	M6
PHSP-6-50	50mm	10	10	M6
PHSP-6-60	60mm	10	10	M6
PHSP-6-70	70mm	10	10	M6
PHSP-6-80	80mm	10	10	M6
PHSP-6-90	90mm	10	10	M6
PHSP-6-100	100mm	10	10	M6



- Material** : Mild steel / Brass
- Length** : Begins from 10mm up to 150mm
- Size** : Begins from M2 or equivalent threads and up M16
- A / F** : Begins from 4mm up to 16mm or equivalent as per Custom Designs or requirements
- Finish and Coating** : Natural, Nickel Plated, Tin Plated or any coating as per customer specification.

Any kind of Spacers can be developed and supplied exactly as per customer specifications.

## DB BLANKING PLATES

12 WAY (24 HALF WAY)



DBPP-12W

5 FULL & 6 HALF WAY



DBPP-5F-6HW

1 WAY



DBPP-1W

## ADHESIVE GASKETS

### SINGLE SIDE SELF ADHESIVE EVA CROSS LINK FOAM GASKET



COLOR : BLACK

Part Number	Size
SAGP 1503	15mm(W) X 3mm(Th) x 10mtr(L)
SAGP 2003	20mm(W) X 3mm(Th) x 10mtr(L)
SAGP 2503	25mm(W) X 3mm(Th) x 10mtr(L)
SAGP 1505	15mm(W) X 5mm(Th) x 10mtr(L)
SAGP 2005	20mm(W) X 5mm(Th) x 10mtr(L)
SAGP 2505	25mm(W) X 5mm(Th) x 10mtr(L)
SAGP 3005	30mm(W) X 5mm(Th) x 10mtr(L)
SAGP 1506	15mm(W) X 6mm(Th) x 10mtr(L)
SAGP 2006	20mm(W) X 6mm(Th) x 10mtr(L)
SAGP 2506	25mm(W) X 6mm(Th) x 10mtr(L)
SAGP 3006	30mm(W) X 6mm(Th) x 10mtr(L)

Specified Size can be manufactured as per customers requirement

## LDPE TUBE SPIRAL BAND



O.D. mm	ROLL LENGTH (meter)
3	50
6	50
9	25
12	25
15	25
19	25
25	25

TOLERANCE : +/- 5% on I.D. & O.D.  
Material : Polyethelene  
Standard Colour : Natural

FOR BLACK COLOUR 5% EXTRA  
WILL BE CHARGED ON PRICE-LIST  
FOR ANY OTHER COLOUR 10% EXTRA  
WILL BE CHARGED ON PRICE-LIST

## INSULATED BUS BAR SYSTEM FOR MCB



UIBMP-SP



PIBMP-TP



UIBMP-DP



UIBMP-FP

Part Number	Connecton	Type	Way	Pole
PIBMP-SP	Single Pole	Pin	56 Way	56 Pole
UIBMP-SP	Single Pole	Fork	56 Way	56 Pole
PIBMP-DP	Two Pole	Pin	28 Way	56 Pole
UIBMP-DP	Two Pole	Fork	28 Way	56 Pole
PIBMP-TP	Three Pole	Pin	19 Way	57 Pole
UIBMP-TP	Three Pole	Fork	19 Way	57 Pole
PIBMP-FP	Four Pole	Pin	14 Way	56 Pole
UIBMP-FP	Four Pole	Fork	14 Way	56 Pole

Standard Length: 1 meter  
Add Pre?x 'T' for Tinned Finish

## PVC TUBES & PIPS



Standard Colour : RED, YELLOW, BLUE, BLACK  
GREEN, GRAY, WHITE.

IN ROLL OF 100 MTRS.		IN ROLL OF 30 MTRS.	
I.D. (mm)	W. T. (mm)	I.D. (mm)	W. T. (mm)
0.5	0.3	3	0.35
1	0.3	3.5	0.35
1.5	0.35	4	0.35
2	0.35	5	0.35
2.5	0.35	6	0.4
		7	0.45
3	0.35	8	0.45
3.5	0.35	9	0.5
4	0.35	10	0.5
5	0.35	11	0.55
6	4	12	0.55
		13	0.65
		14	0.65
		15	0.45
		16	0.45
		18	0.5
		20	0.5
		22	0.55
		24	0.55
		25	0.65

PVC. Lacing cord  
1 mm O.D.  
(Grey & Black  
Colour ONLY)

## P.V.C. MARKING TUBE

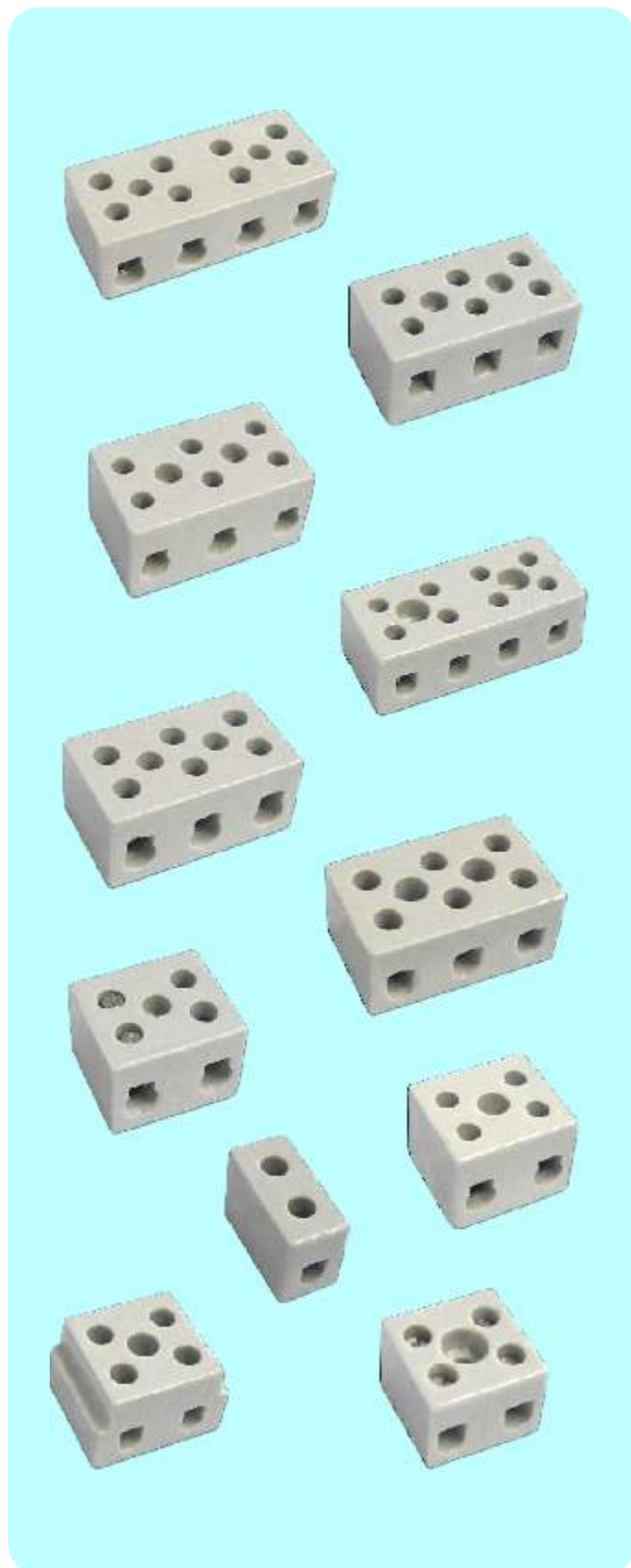


I.D. (mm)	Wall Thickness (mm)	ROLL LENGTH (meter)
1.5	0.4	200
2	0.4	200
2.2	0.4	200
2.5	0.4	200
3	0.4	200
3.2	0.4	200
3.5	0.4	200
4	0.4	200
4.2	0.4	200
4.5	0.4	200
5	0.4	200
5.2	0.4	200
5.5	0.4	200
6	0.4	200
6.2	0.4	200
6.5	0.4	200
7	0.4	200
8	0.4	200

TOLERANCE : +/- 5% on I.D. & O.D.  
STANDARD COLOUR : WHITE



## PORCELENE CONNECTORS



Part Number	AMPERE	WAY/POLE
PPC0052	5	2
PPC0053	5	3
PPC0054	5	4
PPC0102	10	2
PPC0103	10	3
PPC0104	10	4
PPC0151	15	1
PPC0152	15	2
PPC0153	15	3
PPC0154	15	4
PPC0302	30	2
PPC0303	30	3
PPC0304	30	4
PPC0602	60	2
PPC0603	60	3
PPC0604	60	2
PPC1002	100	2
PPC1502	150	2
PPC1503	150	3

### Material :

- :: Base Material - Electrical Grade Porcelain
- :: Contacts - Brass Duly Nickel Plated
- :: Fasteners - M.S. Duly Nickel Plated
- :: Color - White/Cream

## BRASS CABLE GLAND





## BRASS CABLE GLAND

### Technical Data :

- :: General Specification : BS standard BS 6121 part I 1989
- :: Material:
  - a) Glands - Bodies, Caps & Rings are manufactured from brass.
  - b) Seals - Nitrile rubber
  - c) Shrouds / Sleeves - Black Poly Vinyl Chloride (PVC)
  - d) Earth tag - Natural Brass
  - e) Locknut - Natural Brass / Galvanised
- :: Finish: Natural Brass / Nickel Plated / Tinned
- :: Finish: Natural Brass, Also available in Nickel Plating
- :: Entry Thread: Isometric ( Imperial thread, NPT thread, PG thread available on request )

### Gland Selection Chart :

The gland sizes recommended are in accordance with calculations based on cables manufactured to BS 6346 (1969) and WE do not accept any responsibility for cables that prove to deviate materially from the nominal diameters quoted in BS 6346 (1969).

600/1000 stranded copper conductors PVC insulated with steel wire armour & PVC sheathed overall

Cable Size Conductor		Number Of Cores												
Nom. area mm <sup>2</sup>	Neutral	1	2	3	31/2	4	5	7	10	12	19	27	37	48
1.5	-	-	20/16	20/16	-	20S	20S	20S	20	20	25	25	32	32
2.5	-	-	20S	20S	-	20S	20S	20	25	25	25	32	32	40
4	-	-	20S	20	-	20	20	25	25	32	32	40		
6	-	-	20	20	-	20								
10	-	-	25	25	-	25								
16	-	-	25	25	-	25								
25	16	-	32	32	32	32								
			25	25		32								
35	16	-	32	32	32	40								
			25	32		32								
50	25	25	32	32	32	40								
70	35	25	32	40	40	40								
95	50	25	40	40	50S	50S								
120	70	32	40	50S	50	50								
150	70	32	50S	50	50	63S								
185	95	32	50	50	63S	63								
240	120	40	50	63S	63	75S								
300	150	40	63S	63S	75S	75								
300	185	-	-	-	75	-								
400	185	50S	63	75S	90	90								
500	-	50	-	-	-	-								
630	-	50	-	-	-	-								
800	-	63S	-	-	-	-								
1000	-	63	-	-	-	-								



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