

POLYGLASS LOW VOLTAGE INSULATORS

Polyglass

Raw material	Fiber reinforced polyester	
Flexural strength	80 N/mm ²	ISO R 178
Flexural modulus	7 GPa	ISO 178
Impact strength	25 KJ/m ²	ISO 179
Hot deflection temperature	> 200 °C	ISO 75
Class of flammability	V0 >3mm	UL 94
Water absorbtion	< 0,2 %	ISO 62
Tracking resistance	CTI >600 -0.0	IEC 60112
Linear shrinkage	0,18 %	ISO 2577
Hardness	80 HRM	UNI 4278
Dielectric strength	12 kV/mm	IEC 60243 - 1
Arc resistance	> Sec. 180	D-495
Density	1.8 g/cm ³	ISO 1183-1
Color	RAL 3002 (red)	RAL



Our Polyester insulators are in conformity with DIRECTIVE 2006/95/EC (Electrical equipment designed for use within certain voltage limits). Directive 2006/95/EC is a codifying Directive which brings together in one text the "original" Low Voltage Directive 73/23/EEC6 with its subsequent amendments. Directive 2006/95/EC came into force and repealed Directive 73/23/EC as from 16th January 2007. The Directive applies to all electrical equipment designed for use with a voltage rating of between 50 and 1000 V for alternating current and between 75 and 1500 V for direct current. The CE marking is placed on the electrical equipment or, where this is not practically possible, on the packaging.



Our Polyester insulators are molded of Underwriters Laboratories Incorporated  recognized flame-resistant fiberglass-reinforced polyester molding compound.

EN45545 part 2

Conformity according to EN 45545 part 2 : Railway application- fire protection on railway vehicles
part 2 requirements for fire behaviour of materials and components

Test results : Spread of flame : HL 3 - Smoke : HL2 - Toxicity : HL3 - Heat release : HL 2
Final classification : HL2 for R7/R22/R23



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Polyglass standoff - spacing Insulators Isolateurs supports polyverre Polyglas isolatoren

Article :

DB/P

Made in polyglass polyester material reinforced with fiberglass, red colour. The DB/P insulators types, absolutely unbreakable, with high mechanical and electrical characteristics, can be used even under precarious working conditions (high room temperature, in the presence of corrosive substance, etc.). The central layer sides ease the insulators gripping and locking of.

Fabriqués en «polyverre» résine de polyester renforcé de fibres de verre de couleur rouge. Les isolateurs DB/P sont incassables. Les caractéristiques électriques et mécaniques sont particulièrement indiquées pour les conditions ambiantes sévères (température, agent corrosifs, vibrations, etc.). La partie centrale facilite l'agripement et le serrage.

Vervaardigd uit «polyglas» polyester met glasvezelversterking in rode kleur. De DB/P isolatoren zijn onbreekbaar. De elektrische en mechanische eigenschappen zijn aangewezen bij uiterst zware gebruiksomstandigheden (hoge temperatuur, agressieve omgeving, trillingen, etc.). Het centrale gedeelte vergemakelijkt het grijpen en het vastschroeven.

Art.	Surface flashover Surcharge /surface Overbelasting opp.	Intern. flashover Surcharge intern. Inwend. overbelast.	Tensile stress Traction Trek.	Cantilever stress Flexion Buiging	Comp. stress Compression Druk	Twist. stress Torsion Torsie
	kV (A.C.)	kV (A.C.)	DN	DN	DN	DN x m
DB 16/P	3	8	100	50	500	0,4
DB 20/P	4	15	150	60	600	0,4
DB 25/P	7	20	300	180	2100	3
DB 30/P	8	23	500	250	4400	3
DB 34/P	10	30	800	450	6500	5
DB 35/P	10	30	1100	800	8000	9
DB 40/P	10	40	1100	800	8300	10
DB 45/P	12	40	1200	800	8000	10
DB 50/P	12	40	850	450	6800	6
DB 60/P	15	40	1500	800	11700	10
DB 65/P	15	40	1500	700	8300	6
DB 70/P	23	50	2450	950	16600	10
DB 75/P	25	50	2300	900	10000	10
DB750/P	25	50	2800	1500	15000	13
DB100/P	30	50	2950	1550	16700	14,5

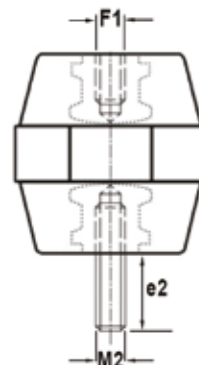
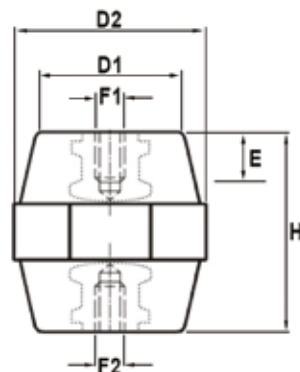
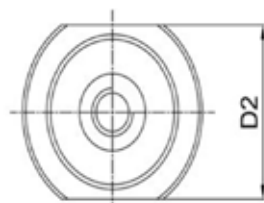
Operating Temperature Température d'utilisation Gebruikstemperatuur	-40°C +130°C
Fire Reaction Tenue au feu Vuurbestendigheid	Class UL-94 VO HL 2 (EN45545-2)
Breaking charge Charge de rupture Breukweerstand	Tolerance +/- 10 %
Water absorption Absorption d'eau Wateropname	< 0,2 %
Arc resistance Résistance à l'arc Vlamboog weerstand	> 180 sec.
Dielectric strength Résistance diélectrique Dielectrische weerstand	12 kV/mm
Comparative Trracking index	CTI 600

1 DN = ~ 1 Kg

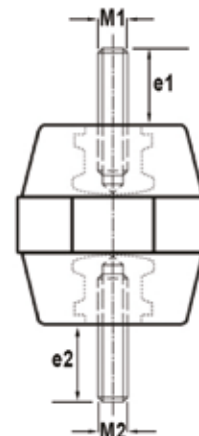
Our standoff Insulators are molded of Underwriters Laboratories Incorporated recognized  flame-resistant fiberglass-reinforced polyester molding compound.



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1AM (BOT)
1 male rod
on bottom side



2AM (TOP+BOT)
2 male rods
on top and bottom



TT	Tightening torque / Couple de serrage / Koppel moment
CS	Compressive stress / Force compression / Draagkracht
FR	Flexion resistance / Résistance à la flexion / Buigweerstand
TS	Tensile Strength / Résistance à la traction / Trekweerstand
SV	Service Voltage / Tension de service / Dienstspanning

Article	Color	F1	F2	H	D1	D2	E	Service Voltage	Tensile stress	Flexion resis.	Compres. stress	Tight. torque		
DB12/PM3	•	M3	M3	12	10	11	3	220 V				1 Nm	1400	4.00 kg
DB12/PM3-BLK	•	M3	M3	12	10	11	3	220 V				1 Nm	1400	4.00 kg
DB12/PM4	•	M4	M4	12	10	11	3	220 V				2 Nm	1400	4.00 kg
DB12/PM4-BLK	•	M4	M4	12	10	11	3	220 V				2 Nm	1400	4.00 kg
DB16/PM3	•	M3	M3	16	13	14	4	380 V	100 DaN	50 DaN	500 DaN	2 Nm	700	4.00 kg
DB16/PM3-BLK	•	M4	M4	16	13	14	4	380 V	100 DaN	50 DaN	500 DaN	2 Nm	700	4.00 kg
DB16/PM4	•	M4	M4	16	13	14	4	380 V	100 DaN	50 DaN	500 DaN	4 Nm	700	4.00 kg
DB16/PM4-BLK	•	M4	M4	16	13	14	4	380 V	100 DaN	50 DaN	500 DaN	4 Nm	700	4.00 kg
DB20/PM4	•	M4	M4	20	15	17	6	500 V	150 DaN	60 DaN	600 DaN	4 Nm	400	1.05 kg
DB20/PM4-BLK	•	M4	M4	20	15	17	6	500 V	150 DaN	60 DaN	600 DaN	4 Nm	400	1.05 kg
DB20/PM5	•	M5	M5	20	15	17	6	500 V	150 DaN	60 DaN	600 DaN	5 Nm	400	1.05 kg
DB20/PM5-BLK	•	M5	M5	20	15	17	6	500 V	150 DaN	60 DaN	600 DaN	5 Nm	400	1.05 kg
DB20/PM6	•	M6	M6	20	15	17	6	500 V	150 DaN	60 DaN	600 DaN	8 Nm	400	1.05 kg
DB20/PM6-BLK	•	M6	M6	20	15	17	6	500 V	150 DaN	60 DaN	600 DaN	8 Nm	400	1.05 kg
DB25/PM5	•	M5	M5	25.2	15	19	7	600 V	300 DaN	180 DaN	2100 DaN	6 Nm	250	3.50 kg
DB25/PM5-BLK	•	M5	M5	25.2	15	19	7	600 V	300 DaN	180 DaN	2100 DaN	6 Nm	250	3.50 kg
DB25/PM6	•	M6	M6	25.2	15	19	7	600 V	300 DaN	180 DaN	2100 DaN	8 Nm	250	3.50 kg
DB25/PM6-BLK	•	M6	M6	25.2	15	19	7	600 V	300 DaN	180 DaN	2100 DaN	8 Nm	250	3.50 kg

TT	Tightening torque / Couple de serrage / Koppel moment
CS	Compressive stress / Force compression / Draagkracht
FR	Flexion resistance / Résistance à la flexion / Buigweerstand
TS	Tensile Strength / Résistance à la traction / Trekweerstand
SV	Service Voltage / Tension de service / Dienstspanning

Article	Color	F1	F2	H	D1	D2	E	Service Voltage	Tensile stress	Flexion resis.	Compres. stress	Tight. torque		
DB30/PM6	•	M6	M6	30	26	30	8	600 V	500 DaN	250 DaN	4400 DaN	12 Nm	80	3.40 kg
DB30/PM6-BLK	•	M6	M6	30	26	30	8	600 V	500 DaN	250 DaN	4400 DaN	12 Nm	80	3.40 kg
DB30/PM8	•	M8	M8	30	26	30	8	600 V	500 DaN	250 DaN	4400 DaN	16 Nm	80	3.40 kg
DB30/PM8-BLK	•	M8	M8	30	26	30	8	600 V	500 DaN	250 DaN	4400 DaN	16 Nm	80	3.40 kg
DB34/PM6	•	M6	M6	35	28	32	10	1000 V	800 DaN	450 DaN	6500 DaN	12 Nm	64	4.85 kg
DB34/PM8	•	M8	M8	35	28	32	10	1000 V	800 DaN	450 DaN	6500 DaN	18 Nm	64	4.85 kg
DB34/PM10	•	M10	M10	35	28	32	10	1000 V	800 DaN	450 DaN	6500 DaN	24 Nm	64	4.85 kg
DB35/PM6	•	M6	M6	35.5	35	41	10	1000 V	1100 DaN	800 DaN	8000 DaN	12 Nm	36	3.70 kg
DB35/PM8	•	M8	M8	35.5	35	41	10	1000 V	1100 DaN	800 DaN	8000 DaN	20 Nm	36	3.70 kg
DB35/PM10	•	M10	M10	35.5	35	41	10	1000 V	1100 DaN	800 DaN	8000 DaN	26 Nm	36	3.70 kg
DB40/PM6	•	M6	M6	40	40	46	13	1000 V	1100 DaN	800 DaN	8300 DaN	10 Nm	24	3.60 kg
DB40/PM8	•	M8	M8	40	40	46	13	1000 V	1100 DaN	800 DaN	8300 DaN	20 Nm	24	3.60 kg
DB40/PM10	•	M10	M10	40	40	46	12	1000 V	1100 DaN	800 DaN	8300 DaN	24 Nm	24	3.60 kg
DB40/PM12	•	M12	M12	40	40	46	12	1000 V	1100 DaN	800 DaN	8300 DaN	36 Nm	24	3.60 kg
DB45/PM6	•	M6	M6	45	35	41	12	1500 V	1200 DaN	800 DaN	8000 DaN	14 Nm	27	3.45 kg
DB45/PM8	•	M8	M8	45	35	41	12	1500 V	1200 DaN	800 DaN	8000 DaN	22 Nm	27	3.45 kg
DB45/PM10	•	M10	M10	45	35	41	12	1500 V	1200 DaN	800 DaN	8000 DaN	28 Nm	27	3.45 kg
DB45/PM12	•	M12	M12	45	35	41	12	1500 V	1200 DaN	800 DaN	8000 DaN	36 Nm	27	3.45 kg
DB50/PM6	•	M6	M6	51	29	36	12	2000 V	850 DaN	450 DaN	6800 DaN	10 Nm	36	4.00 kg
DB50/PM8	•	M8	M8	51	29	36	12	2000 V	850 DaN	450 DaN	6800 DaN	22 Nm	36	4.00 kg
DB50/PM10	•	M10	M10	51	29	36	13	2000 V	850 DaN	450 DaN	6800 DaN	26 Nm	36	4.00 kg
DB50/PM12	•	M12	M12	51	29	36	12	2000 V	850 DaN	450 DaN	6800 DaN	36 Nm	36	4.00 kg
DB60PM8	•	M8	M8	60	46	55	14	2000 V	1500 DaN	800 DaN	8000 DaN	22 Nm	12	3.20 kg
DB60PM10	•	M10	M10	60	46	55	16	2000 V	1500 DaN	800 DaN	8000 DaN	26 Nm	12	3.20 kg
DB60PM12	•	M12	M12	60	46	55	17	2000 V	1500 DaN	800 DaN	8000 DaN	36 Nm	12	3.20 kg
DB65/PM6	•	M6	M6	63.5	35	41	17	3000 V	1500 DaN	700 DaN	8300 DaN	12 Nm	22	4.00 kg
DB65/PM8	•	M8	M8	63.5	35	41	16	3000 V	1500 DaN	700 DaN	8300 DaN	22 Nm	22	4.00 kg
DB65/PM10	•	M10	M10	63.5	35	41	16	3000 V	1500 DaN	700 DaN	8300 DaN	26 Nm	22	4.00 kg
DB65/PM12	•	M12	M12	63.5	35	41	17	3000 V	1500 DaN	700 DaN	8300 DaN	36 Nm	22	4.00 kg
DB70/PM10	•	M10	M10	70	52	65	16	4000 V	2450 DaN	950 DaN	16600 DaN	26 Nm	8	3.00 kg
DB70/PM12	•	M12	M12	70	52	65	16	4000 V	2450 DaN	950 DaN	16600 DaN	36 Nm	8	3.00 kg
DB70/PM16	•	M16	M16	70	52	65	23	4000 V	2450 DaN	950 DaN	16600 DaN	50 Nm	8	3.00 kg
DB75/PM8	•	M8	M8	76	36	50	17	5000 V	2300 DaN	900 DaN	10000 DaN	22 Nm	12	3.00 kg
DB75/PM10	•	M10	M10	76	36	50	16	5000 V	2300 DaN	900 DaN	10000 DaN	26 Nm	12	3.00 kg
DB75/PM12	•	M12	M12	76	36	50	17	5000 V	2300 DaN	900 DaN	10000 DaN	36 Nm	12	3.00 kg
DB750/PM8	•	M8	M8	75	52	65	19	5000 V	2800 DaN	1500 DaN	15000 DaN	22 Nm	8	3.60 kg
DB750/PM10	•	M10	M10	75	52	65	20	5000 V	2800 DaN	1500 DaN	15000 DaN	26 Nm	8	3.60 kg
DB750/PM12	•	M12	M12	75	52	65	20	5000 V	2800 DaN	1500 DaN	15000 DaN	36 Nm	8	3.60 kg
DB750/PM16	•	M16	M16	75	52	65	21	5000 V	2800 DaN	1500 DaN	15000 DaN	50 Nm	8	3.60 kg
DB100/PM10	•	M10	M10	101	52	65	20	8000 V	2950 DaN	1550 DaN	16700 DaN	26 Nm	4	2.30 kg
DB100/PM12	•	M12	M12	101	52	65	19	8000 V	2950 DaN	1550 DaN	16700 DaN	36 Nm	4	2.30 kg
DB100/PM16	•	M16	M16	101	52	65	23	8000 V	2950 DaN	1550 DaN	16700 DaN	50 Nm	4	2.30 kg

Polyglass standoff - spacing Insulators Isolateurs supports polyverre Polyglas isolatoren

Article :

CO/P

Made in polyglass polyester material reinforced with fiberglass, red colour. The CO/P insulators types, absolutely unbreakable, with high mechanical and electrical characteristics, can be used even under precarious working conditions (high room temperature, in the presence of corrosive substance, etc.).

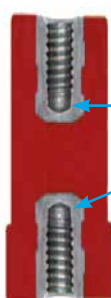
Fabriqués en «polyverre» résine de polyester renforcé de fibres de verre de couleur rouge. Les isolateurs CO/P sont incassables. Les caractéristiques électriques et mécaniques sont particulièrement indiquées pour les conditions ambiantes sévères (température, agent corrosifs, vibrations, etc.).

Vervaardigd uit «polyglas» polyester met glasvezelversterking in rode kleur. De CO/P isolatoren zijn onbreekbaar. De elektrische en mechanische eigenschappen zijn aangewezen bij uiterst zware gebruiksomstandigheden (hoge temperatuur, agressieve omgeving, trillingen, etc.).

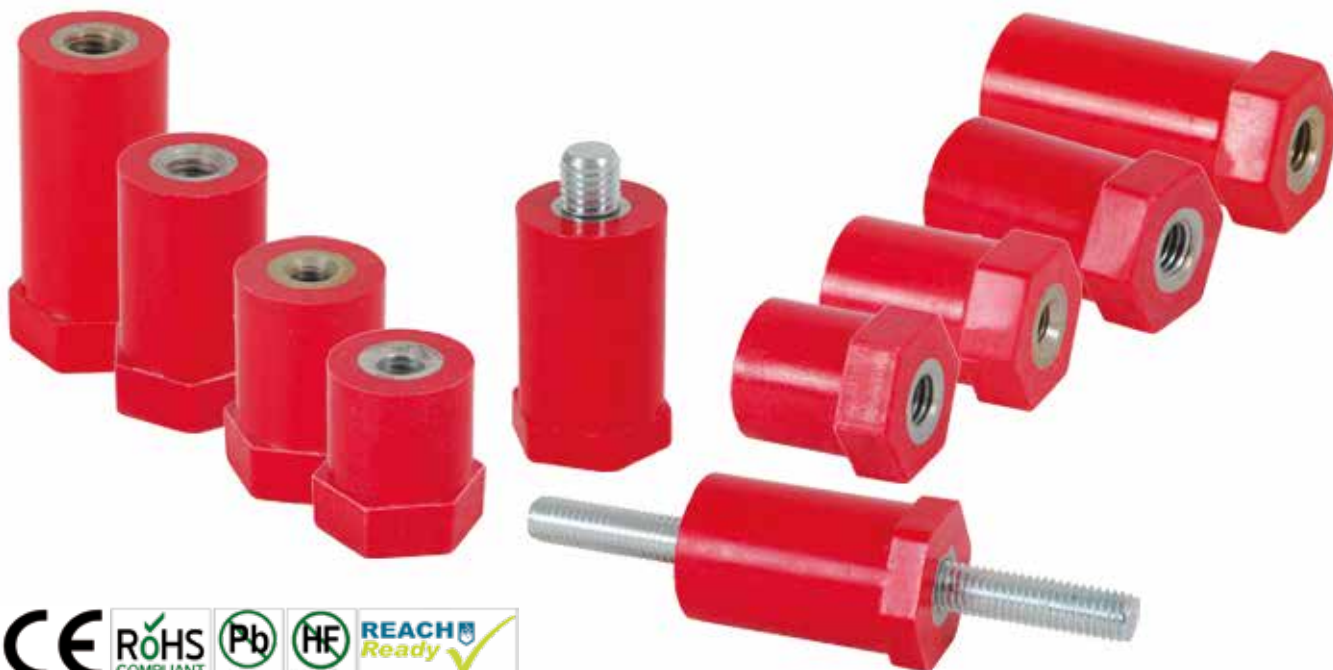
Art.	Surface flashover Surcharge /surface Overbelasting opp.	Intern. flashover Surcharge intern. Inwend. overbelast.	Tensile stress Traction Trek.	Cantilever stress Flexion Buiging	Comp. stress Compression Druk	Twist. stress Torsion Torsie
	kV (A.C.)	kV (A.C.)	DN	DN	DN	DN x m
CO/P 30	5	15	400	200	2100	1-2
CO/P 40	8	20	400	150	2100	1-2
CO/P 50	10	25	400	100	2100	1-2
CO/P 60	10	30	400	100	2100	1-2

Operating Temperature Température d'utilisation Gebruikstemperatuur	-40°C +130°C
Fire Reaction Tenue au feu Vuurbestendigheid	Class UL-94 VO HL 2 (EN45545-2)
Breaking charge Charge de rupture Breukweerstand	Tolerance +- 10 %

1 DN = ~ 1 Kg



Standard insert made in Zinc electroplated steel
Standard brass inserts made for smallest parts
On request inserts in stainless steel AISI316L





TT	Tightening torque / Couple de serrage / Koppel moment
CS	Compressive stress / Force compression / Draagkracht
FR	Flexion resistance / Résistance à la flexion / Buigweerstand
TS	Tensile Strength / Résistance à la traction / Trekweerstand
SV	Service Voltage / Tension de service / Dienstspanning

Article	Color	F1	F2	H	D	E	Service Voltage	Tensile stress	Flexion resis.	Compres. stress	Tight. torque		
CO/P16M4	•	M4	M4	16	20	3	220 V	400 DaN	250 DaN	2100 DaN	2 Nm	250	4.10 kg
CO/P16M5	•	M5	M5	16	20	3	220 V	400 DaN	250 DaN	2100 DaN	6 Nm	250	4.10 kg
CO/P16M6	•	M6	M6	16	20	3	220 V	400 DaN	250 DaN	2100 DaN	8 Nm	250	4.10 kg
CO/P16M8	•	M8	M8	16	20	4	220 V	400 DaN	250 DaN	2100 DaN	10 Nm	250	4.10 kg
CO/P20M4	•	M4	M4	20	20	5	400 V	400 DaN	250 DaN	2100 DaN	2 Nm	200	4.20 kg
CO/P20M5	•	M5	M5	20	20	5	400 V	400 DaN	250 DaN	2100 DaN	6 Nm	200	4.20 kg
CO/P20M6	•	M6	M6	20	20	5	400 V	400 DaN	250 DaN	2100 DaN	10 Nm	200	4.20 kg
CO/P20M8	•	M8	M8	20	20	5	400 V	400 DaN	250 DaN	2100 DaN	10 Nm	200	4.20 kg
CO/P25M4	•	M4	M4	25	20	7	500 V	400 DaN	250 DaN	2100 DaN	2 Nm	150	3.80 kg
CO/P25M5	•	M5	M5	25	20	6	500 V	400 DaN	250 DaN	2100 DaN	6 Nm	150	3.80 kg
CO/P25M6	•	M6	M6	25	20	7	500 V	400 DaN	250 DaN	2100 DaN	10 Nm	150	3.80 kg
CO/P25M8	•	M8	M8	25	20	6	500 V	400 DaN	250 DaN	2100 DaN	14 Nm	150	3.80 kg
CO/P30M4	•	M4	M4	30	20	8	600 V	400 DaN	200 DaN	2100 DaN	2 Nm	140	4.20 kg
CO/P30M5	•	M5	M5	30	20	8	600 V	400 DaN	200 DaN	2100 DaN	8 Nm	140	4.20 kg
CO/P30M6	•	M6	M6	30	20	8	600 V	400 DaN	200 DaN	2100 DaN	12 Nm	140	4.20 kg
CO/P30M8	•	M8	M8	30	20	8	600 V	400 DaN	200 DaN	2100 DaN	16 Nm	140	4.20 kg
CO/P35M5	•	M5	M5	35	20	8	600 V	400 DaN	150 DaN	2100 DaN	8 Nm	120	3.90 kg
CO/P35M6	•	M6	M6	35	20	8	600 V	400 DaN	150 DaN	2100 DaN	12 Nm	120	3.90 kg
CO/P35M8	•	M8	M8	35	20	8	600 V	400 DaN	150 DaN	2100 DaN	16 Nm	120	3.90 kg
CO/P40M5	•	M5	M5	40	20	7	600 V	400 DaN	150 DaN	2100 DaN	8 Nm	110	3.90 kg
CO/P40M6	•	M6	M6	40	20	8	600 V	400 DaN	150 DaN	2100 DaN	12 Nm	110	3.90 kg
CO/P40M8	•	M8	M8	40	20	8	600 V	400 DaN	150 DaN	2100 DaN	16 Nm	110	3.90 kg
CO/P45M5	•	M5	M5	45	20	10	750 V	400 DaN	150 DaN	2100 DaN	8 Nm	100	4.00 kg
CO/P45M6	•	M6	M6	45	20	10	750 V	400 DaN	150 DaN	2100 DaN	12 Nm	100	4.00 kg
CO/P45M8	•	M8	M8	45	20	10	750 V	400 DaN	150 DaN	2100 DaN	16 Nm	100	4.00 kg
CO/P50M5	•	M5	M5	50	20	8	750 V	400 DaN	100 DaN	2100 DaN	8 Nm	80	3.40 kg
CO/P50M6	•	M6	M6	50	20	10	750 V	400 DaN	100 DaN	2100 DaN	12 Nm	80	3.40 kg
CO/P50M8	•	M8	M8	50	20	10	750 V	400 DaN	100 DaN	2100 DaN	16 Nm	80	3.40 kg
CO/P60M6	•	M6	M6	60	20	12	750 V	400 DaN	100 DaN	2100 DaN	12 Nm	70	3.40 kg
CO/P60M8	•	M8	M8	60	20	10	750 V	400 DaN	100 DaN	2100 DaN	16 Nm	70	3.40 kg

Polyglass standoff - spacing Insulators Isolateurs supports polyverre Polyglas isolatoren

Article :

CS/P

Made in polyglass polyester material reinforced with fiberglass, red colour. The CS/P insulators types, absolutely unbreakable, with high mechanical and electrical characteristics, can be used even under precarious working conditions (high room temperature, in the presence of corrosive substance, etc.).

Fabriqués en «polyverre» résine de polyester renforcé de fibres de verre de couleur rouge. Les isolateurs CS/P sont incassables. Les caractéristiques électriques et mécaniques sont particulièrement indiquées pour les conditions ambiantes sévères (température, agent corrosifs, vibrations, etc.).

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	kV (A.C.)	kV (A.C.)	DN	DN	DN	DN x m
CS/P 30	8	20	900	450	4000	1,3 - 2,6
CS/P 40	8	25	900	300	4000	1,3 - 2,6
CS/P 50	10	35	900	200	4000	1,3 - 2,6
CS/P 60	15	35	900	150	4000	1,3 - 2,6

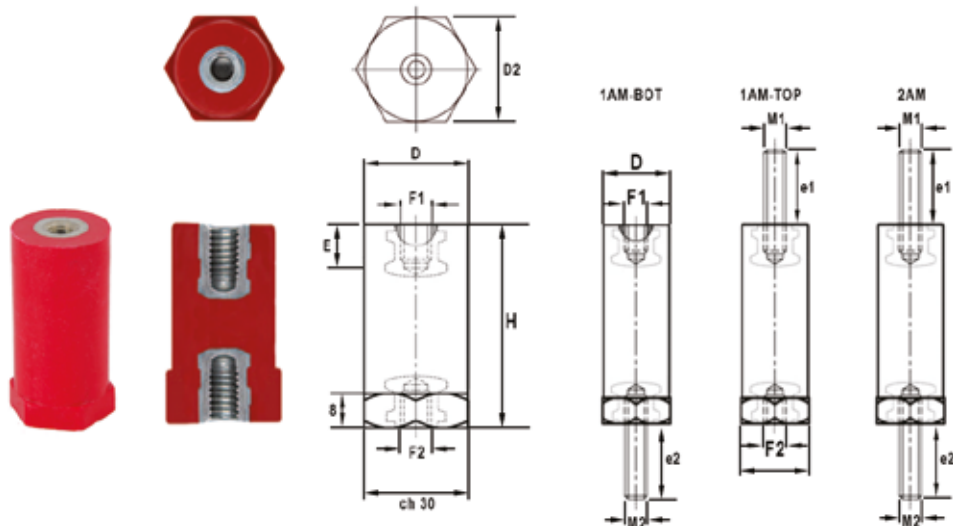
Operating Temperature Température d'utilisation Gebruikstemperatuur	-40°C +130°C
Fire Reaction Tenue au feu Vuurbestendigheid	Class UL-94 VO HL 2 (EN45545-2)
Breaking charge Charge de rupture Breukweerstand	Tolerance +/- 10 %

1 DN = ~ 1 Kg



Standard insert made in Zinc electroplated steel
Standard brass inserts made for smallest parts
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TT	Tightening torque / Couple de serrage / Koppel moment
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TS	Tensile Strength / Résistance à la traction / Trekweerstand
SV	Service Voltage / Tension de service / Dienstspanning

Article	Color	F1	F2	H	D	E	Service Voltage	Tensile stress	Flexion resis.	Compres. stress	Tight. torque		
CS/P30M6	•	M6	M6	30	30	9	750 V	900 DaN	450 DaN	4000 DaN	10 Nm	80	4.80 kg
CS/P30M8	•	M8	M8	30	30	8	750 V	900 DaN	450 DaN	4000 DaN	22 Nm	80	4.80 kg
CS/P30M10	•	M10	M10	30	30	7	750 V	900 DaN	450 DaN	4000 DaN	24 Nm	80	4.80 kg
CS/P35M6	•	M6	M6	35	30	10	1000 V	900 DaN	300 DaN	4000 DaN	10 Nm	64	4.70 kg
CS/P35M8	•	M8	M8	35	30	9	1000 V	900 DaN	300 DaN	4000 DaN	22 Nm	64	4.70 kg
CS/P35M10	•	M10	M10	35	30	9	1000 V	900 DaN	300 DaN	4000 DaN	24 Nm	64	4.70 kg
CS/P40M6	•	M6	M6	40	30	12	1000 V	900 DaN	300 DaN	4000 DaN	10 Nm	60	4.90 kg
CS/P40M8	•	M8	M8	40	30	12	1000 V	900 DaN	300 DaN	4000 DaN	22 Nm	60	4.90 kg
CS/P40M10	•	M10	M10	40	30	13	1000 V	900 DaN	300 DaN	4000 DaN	24 Nm	60	4.90 kg
CS/P45M6	•	M6	M6	45	30	12	1000 V	900 DaN	300 DaN	4000 DaN	10 Nm	48	4.40 kg
CS/P45M8	•	M8	M8	45	30	12	1000 V	900 DaN	300 DaN	4000 DaN	22 Nm	48	4.40 kg
CS/P45M10	•	M10	M10	45	30	13	1000 V	900 DaN	300 DaN	4000 DaN	24 Nm	48	4.40 kg
CS/P50M6	•	M6	M6	50	30	12	1500 V	900 DaN	200 DaN	4000 DaN	10 Nm	48	4.50 kg
CS/P50M8	•	M8	M8	50	30	13	1500 V	900 DaN	200 DaN	4000 DaN	22 Nm	48	4.50 kg
CS/P50M10	•	M10	M10	50	30	13	1500 V	900 DaN	200 DaN	4000 DaN	24 Nm	48	4.50 kg
CS/P55M6	•	M6	M6	55	30	12	1500 V	900 DaN	200 DaN	4000 DaN	10 Nm	40	4.10 kg
CS/P55M8	•	M8	M8	55	30	12	1500 V	900 DaN	200 DaN	4000 DaN	22 Nm	40	4.10 kg
CS/P55M10	•	M10	M10	55	30	13	1500 V	900 DaN	200 DaN	4000 DaN	24 Nm	40	4.10 kg
CS/P60M6	•	M6	M6	60	30	13	1500 V	900 DaN	150 DaN	4000 DaN	10 Nm	40	4.50 kg
CS/P60M8	•	M8	M8	60	30	16	1500 V	900 DaN	150 DaN	4000 DaN	22 Nm	40	4.50 kg
CS/P60M10	•	M10	M10	60	30	17	1500 V	900 DaN	150 DaN	4000 DaN	24 Nm	40	4.50 kg
CS/P65M6	•	M6	M6	65	30	13	1500 V	900 DaN	150 DaN	4000 DaN	10 Nm	32	3.80 kg
CS/P65M8	•	M8	M8	65	30	16	1500 V	900 DaN	150 DaN	4000 DaN	22 Nm	32	3.80 kg
CS/P65M10	•	M10	M10	65	30	17	1500 V	900 DaN	150 DaN	4000 DaN	24 Nm	32	3.80 kg
CS/P70M6	•	M6	M6	70	30	13	1500 V	900 DaN	150 DaN	4000 DaN	10 Nm	32	4.00 kg
CS/P70M8	•	M8	M8	70	30	16	1500 V	900 DaN	150 DaN	4000 DaN	22 Nm	32	4.00 kg
CS/P70M10	•	M10	M10	70	30	17	1500 V	900 DN	150 DaN	4000 DaN	24 Nm	32	4.00 kg

Polyglass standoff - spacing Insulators Isolateurs supports polyverre Polyglas isolatoren

Article :

CT/P

Made in polyglass polyester material reinforced with fiberglass, red colour. The CT/P insulators types, absolutely unbreakable, with high mechanical and electrical characteristics, can be used even under precarious working conditions (high room temperature, in the presence of corrosive substance, etc.).

Fabriqués en «polyverre» résine de polyester renforcé de fibres de verre de couleur rouge. Les isolateurs CT/P sont incassables. Les caractéristiques électriques et mécaniques sont particulièrement indiquées pour les conditions ambiantes sévères (température, agent corrosifs, vibrations, etc.).

Vervaardigd uit «polyglas» polyester met glasvezelversterking in rode kleur. De CT/P isolatoren zijn onbreekbaar. De elektrische en mechanische eigenschappen zijn aangewezen bij uiterst zware gebruiksomstandigheden (hoge temperatuur, agressieve omgeving, trillingen, etc.).

Art.	Surface flashover Surcharge /surface Overbelasting opp.	Intern. flashover Surcharge intern. Inwend. overbelast.	Tensile stress Traction Trek.	Cantilever stress Flexion Buiging	Comp. stress Compression Druk	Twist. stress Torsion Torsie
	kV (A.C.)	kV (A.C.)	DN	DN	DN	DN x m
CS/P 30	8	20	900	450	4000	1,3 - 2,6
CS/P 40	8	25	900	300	4000	1,3 - 2,6
CS/P 50	10	35	900	200	4000	1,3 - 2,6
CS/P 60	15	35	900	150	4000	1,3 - 2,6

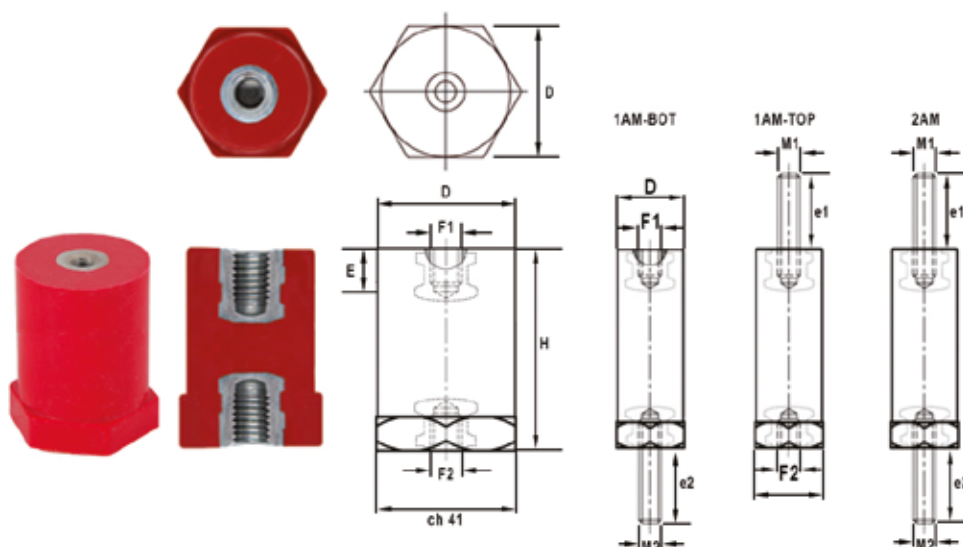
Operating Temperature Température d'utilisation Gebruikstemperatuur	-40°C +130°C
Fire Reaction Tenue au feu Vuurbestendigheid	Class UL-94 VO HL 2 (EN45545-2)
Breaking charge Charge de rupture Breukweerstand	Tolerance +/- 10 %

1 DN = ~ 1 Kg



Standard insert made in Zinc electroplated steel
Standard brass inserts made for smallest parts
On request inserts in stainless steel AISI316L





TT	Tightening torque / Couple de serrage / Koppel moment
CS	Compressive stress / Force compression / Draagkracht
FR	Flexion resistance / Résistance à la flexion / Buigweerstand
TS	Tensile Strength / Résistance à la traction / Trekweerstand
SV	Service Voltage / Tension de service / Dienstspanning

Article	Color	F1	F2	H	D	E	Service Voltage	Tensile stress	Flexion resis.	Compres. stress	Tight. torque		
CT/P30M6	•	M6	M6	30	40	9	750 V	1000 DaN	750 DaN	8000 DaN	12 Nm	45	4.20 kg
CT/P30M8	•	M8	M8	30	40	9	750 V	1000 DaN	750 DaN	8000 DaN	22 Nm	45	4.20 kg
CT/P30M10	•	M10	M10	30	40	8	750 V	1000 DaN	750 DaN	8000 DaN	24 Nm	45	4.20 kg
CT/P35M8	•	M8	M8	35	40	10	750 V	1000 DaN	700 DaN	8000 DaN	22 Nm	36	4.10 kg
CT/P35M10	•	M10	M10	35	40	10	750 V	1000 DaN	700 DaN	8000 DaN	26 Nm	36	4.10 kg
CT/P40M8	•	M8	M8	40	40	12	750 V	1000 DaN	700 DaN	8000 DaN	22 Nm	27	3.30 kg
CT/P40M10	•	M10	M10	40	40	13	1000 V	1000 DaN	700 DaN	8000 DaN	24 Nm	27	3.30 kg
CT/P40M12	•	M12	M12	40	40	13	1000 V	1000 DaN	700 DaN	8000 DaN	36 Nm	27	3.30 kg
CT/P45M8	•	M8	M8	45	40	13	1000 V	1000 DaN	500 DaN	8000 DaN	22 Nm	27	3.60 kg
CT/P45M10	•	M10	M10	45	40	13	1000 V	1000 DaN	500 DaN	8000 DaN	26 Nm	27	3.60 kg
CT/P50M8	•	M8	M8	50	40	13	1500 V	1000 DaN	500 DaN	8000 DaN	22 Nm	27	3.80 kg
CT/P50M10	•	M10	M10	50	40	13	1500 V	1000 DaN	500 DaN	8000 DaN	26 Nm	27	3.80 kg
CT/P50M12	•	M12	M12	50	40	12	1500 V	1000 DaN	500 DaN	8000 DaN	36 Nm	27	3.80 kg
CT/P55M8	•	M8	M8	55	40	13	1500 V	1000 DaN	500 DaN	8000 DaN	22 Nm	18	2.90 kg
CT/P55M10	•	M10	M10	55	40	17	1500 V	1000 DaN	500 DaN	8000 DaN	26 Nm	18	2.90 kg
CT/P60M8	•	M8	M8	60	40	17	1500 V	1000 DaN	500 DaN	8000 DaN	22 Nm	18	3.10 kg
CT/P60M10	•	M10	M10	60	40	18	1500 V	1000 DaN	370 DaN	8000 DaN	26 Nm	18	3.10 kg
CT/P60M12	•	M12	M12	60	40	16	1500 V	1000 DaN	370 DaN	8000 DaN	36 Nm	18	3.10 kg
CT/P65M8	•	M8	M8	65	40	18	1500 V	1000 DaN	370 DaN	8000 DaN	22 Nm	18	3.50 kg
CT/P65M10	•	M10	M10	65	40	17	1500 V	1000 DaN	370 DaN	8000 DaN	26 Nm	18	3.50 kg
CT/P70M8	•	M8	M8	70	40	17	1500 V	1000 DaN	370 DaN	8000 DaN	22 Nm	18	3.50 kg
CT/P70M10	•	M10	M10	70	40	17	1500 V	1000 DaN	370 DaN	8000 DaN	26 Nm	18	3.50 kg

Polyglass standoff - spacing Insulators Isolateurs supports polyverre Polyglas isolatoren

Article :

CPE

Made in polyglass polyester material reinforced with fiberglass, red colour. The CPE insulators types, absolutely unbreakable, with high mechanical and electrical characteristics, can be used even under precarious working conditions (high room temperature, in the presence of corrosive substance, etc.).

Fabriqués en «polyverre» résine de polyester renforcé de fibres de verre de couleur rouge.

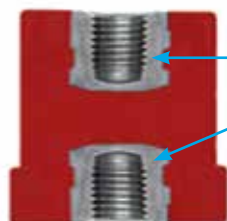
Les isolateurs CPE sont incassables. Les caractéristiques électriques et mécaniques sont particulièrement indiquées pour les conditions ambiantes sévères (température, agent corrosifs, vibrations, etc.).

Vervaardigd uit «polyglas» polyester met glasvezelversterking in rode kleur. De CPE isolatoren zijn onbreekbaar. De elektrische en mechanische eigenschappen zijn aangewezen bij uiterst zware gebruiksomstandigheden (hoge temperatuur, agressieve omgeving, trillingen, etc.).

TYPE	Surface flashover Surcharge /surface Overbelasting opp.	Intern. flashover Surcharge intern. Inwend. overbelast.	Tensile stress Traction Trek.	Cantilever stress Flexion Buiging	Comp. stress Compression Druk	Twist. stress Torsion Torsie
	kV (A.C.)	kV (A.C.)	DN	DN	DN	DN x m
CPE 40	10	25	1100	700	10000	6
CPE 60	20	50	1500	600	10000	8
CPE 80	25	50	2300	900	12000	10
CPE 100	30	50	3000	1500	15000	15

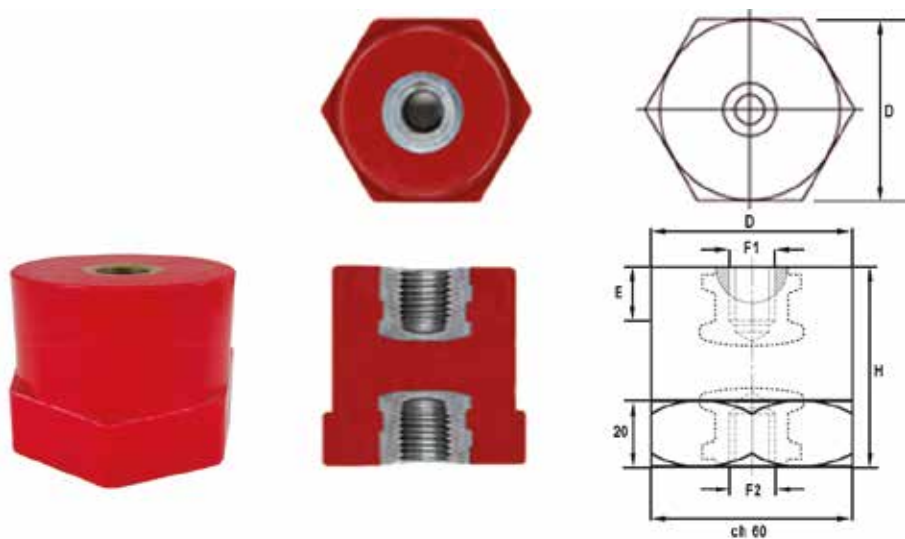
Operating Temperature Température d'utilisation Gebruikstemperatuur	-40°C +130°C
Fire Reaction Tenue au feu Vuurbestendigheid	Class UL-94 VO HL 2 (EN45545-2)
Breaking charge Charge de rupture Breukweerstand	Tolerance +/- 10 %

1 DN = ~ 1 Kg



Standard insert made in Zinc electroplated steel
Standard brass inserts made for smallest parts
On request inserts in stainless steel AISI316L





TT	Tightening torque / Couple de serrage / Koppel moment
CS	Compressive stress / Force compression / Draagkracht
FR	Flexion resistance / Résistance à la flexion / Buigweerstand
TS	Tensile Strength / Résistance à la traction / Trekweerstand
SV	Service Voltage / Tension de service / Dienstspanning

Article	Color	F1	F2	H	D	E	Service Voltage	Tensile stress	Flexion resis.	Compres. stress	Tight. torque		
CPE40M10	•	M10	M10	40	60	14	1500 V	1100 DaN	700 DaN	10000 DaN	24 Nm	12	2.90 kg
CPE40M12	•	M12	M12	40	61	13	1500 V	1100 DaN	700 DaN	10000 DaN	36 Nm	12	2.90 kg
CPE40M16	•	M16	M16	40	62	12	1500 V	1100 DaN	700 DaN	10000 DaN	50 Nm	12	2.90 kg
CPE60M10	•	M10	M10	60	63	16	3000 V	1500 DaN	600 DaN	10000 DaN	24 Nm	10	3.50 kg
CPE60M12	•	M12	M12	60	64	17	3000 V	1500 DaN	600 DaN	10000 DaN	36 Nm	10	3.50 kg
CPE60M16	•	M16	M16	60	65	22	3000 V	1500 DaN	600 DaN	10000 DaN	50 Nm	10	3.50 kg
CPE80M10	•	M10	M10	80	66	20	5000 V	2300 DaN	900 DaN	12000 DaN	24 Nm	8	3.70 kg
CPE80M12	•	M12	M12	80	67	17	5000 V	2300 DaN	900 DaN	12000 DaN	36 Nm	8	3.70 kg
CPE80M16	•	M16	M16	80	68	24	5000 V	2300 DaN	900 DaN	12000 DaN	55 Nm	8	3.70 kg
CPE100M10	•	M10	M10	100	69	20	8000 V	3000 DaN	1500 DaN	15000 DaN	24 Nm	5	2.80 kg
CPE100M12	•	M12	M12	100	70	20	8000 V	3000 DaN	1500 DaN	15000 DaN	40 Nm	5	2.80 kg
CPE100M16	•	M16	M16	100	71	24	8000 V	3000 DaN	1500 DaN	15000 DaN	55 Nm	5	2.80 kg

Polyglass spacing Insulators Isolateurs supports polyverre Polyglas isolatoren

Article :

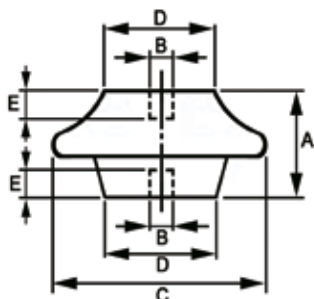
I2IC1000

These insulators are used in humid and dusty ambients as the particular bell shape helps moisture runaway and prevents dust build-up.

Ces isolateurs conviennent pour des environnements humide et poussiéreux. Le design à cloche permet l'évacuation de l'eau et évite les dépôts de poussière.

Deze isolatoren zijn aangewezen voor toepassingen in vochtige en stoffige omgevingen. De klok-vorm helpt het weglopen van water en voorkomt stof opbouw.

I2IC1000-...



Art.	A	B	C	D	E	F	Service Volt.
I2IC1000-08	52	M8	100	50	15	25	5000 V
I2IC1000-10	52	M10	100	50	15	25	5000 V
I2IC1000-12	52	M12	100	50	16	30	5000 V
I2IC1000-16	52	M16	100	50	16	30	5000 V

Creepage distance = 85 mm

Ligne de fuite = 85 mm

Kruipafstand = 85 mm

TYPE	Surface flashover Surcharge /surface Overbelasting opp.	Intern. flashover Surcharge intern. Inwend. overbelast.	Tensile stress Traction Trek.	Cantilever stress Flexion Buiging	Comp. stress Compression Druk	Twist. stress Torsion Torsie
I2IC1000	50 kV (A.C.)	40 kV (A.C.)	1950 DN	980 DN	14700 DN	10 DN x m

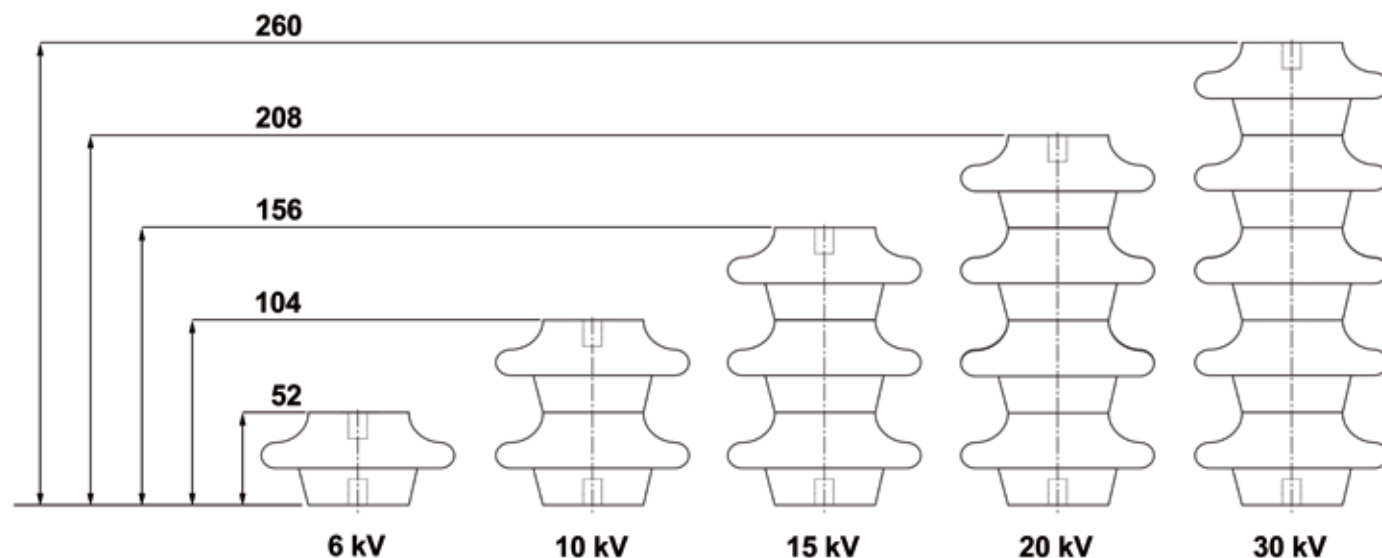
Operating Temperature Température d'utilisation Gebruikstemperatuur	-40°C +130°C
Fire Reaction Tenue au feu Vuurbestendigheid	Class UL-94 VO HL 2 (EN45545-2)
Breaking charge Charge de rupture Breukweerstand	Tolerance +/- 10 %

The particular shape permits to have a creepage distance which satisfies the operating voltage by assembling several pieces together

Le design particulier permet d'avoir une ligne de fuite adaptée à la tension de service en assemblant plusieurs pièces ensemble.

De bijzondere vorm biedt de mogelijkheid toe om een kruipafstand te hebben voor een geschikte werkspanning door meerdere stukken opeelkaar te monteren.

Assembled qty	Height mm	Creepage distance mm	Nominal voltage range kV	Max. operating Voltage kV	Withstand voltage at industrial frequency	Rated lightning impulse Voltage kV
1	52	85	6	7,2	28	60
2	104	170	10	12	38	75
3	156	255	15	17	45	95
4	208	340	20	24	55	125
5	260	425	30	36	75	170



Male rods
Inserts mâle
Draadstangen

Article :

G/GR

On request we can supply the spacing insulators with 1 or 2 male connections type «AM».

Sur demande nous pouvons fournir des isolateurs avec 1 ou 2 inserts mâles – ref AM.

Op aanvraag kunnen wij isolatoren leveren met 1 of 2 draadstangen - ref AM.



G5x20	G8x22	G10x30	G12x30
G6x20	G8x33	G10x40	G16x30
G6x30	G8x50	G10x50	
G8x15	G10x22	G12x25	



GR 12/10
GR 16/10
GR 16/12
GR 8/12



DB ... /P 1AM



DB ... /P 2AM



CO/P 1AM TOP
CS/P 1AM TOP
CT/P 1AM TOP
CPE 1AM TOP



CO/P 1AM BOT
CS/P 1AM BOT
CT/P 1AM BOT
CPE 1AM BOT



CO/P 2AM
CS/P 2AM
CT/P 2AM
CPE 2AM



I2IC1000-.... 1AM TOP



I2IC1000-.... 1AM BOT



I2IC1000-.... 2AM

Polyester

Passing insulators. (bushings) Isolateurs passe-cloison Doorvoerisolatoren

Article :

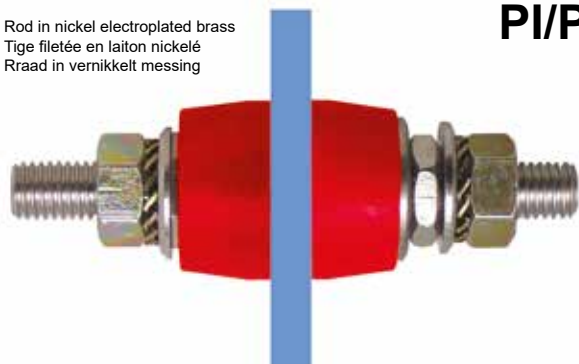
PI/P

The passing insulators are composed of 2 polyglass insulating parts fitting in each other. The locking is made by a rod and 2 nuts wherefrom one is fixed to the rod. The conductors are locked with the rod and nuts. The conductors can be connected or disconnected both sides without turning or unclamping it from the screwing up.

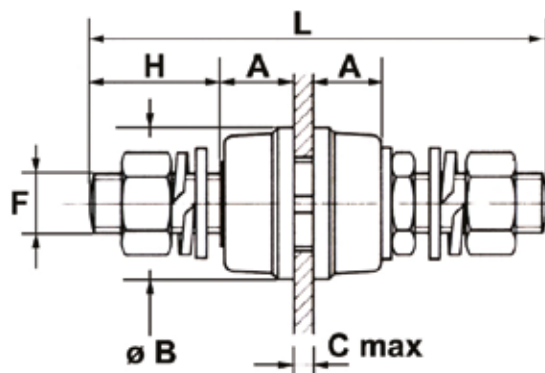
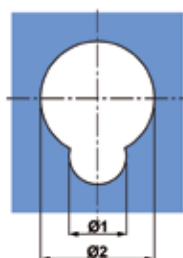
Les isolateurs passe-cloison sont constitué de 2 parties isolées en polyverre s'emboitant l'une dans l'autre. Le blocage des parties isolantes est faite par un tirant et 2 écrous dont une est solidaire au tirant. Les conducteurs sont bloqués au tirant par des écrous. Les conducteurs peuvent être connecter ou séparer sans faire tourner ou débloquer le serrage.

De doorvoerisolatoren bestaan uit 2 geïsoleerde delen in polyglas die in elkaar worden gemonteerd. De blokering van de 2 isolerende delen gebeurt met een draadstang en 2 moeren waarvan 1 solidair is aan de draadstang. De geleiders worden vastgeschroefd met 2 moeren. De geleiders kunnen aangesloten of verwijderd worden, zonder draaien of uitschroeven van de blokering.

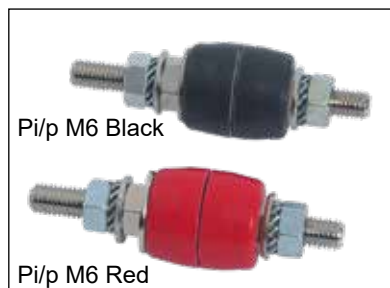
Rod in nickel electroplated brass
Tige filetée en laiton nickelé
Rraad in vernikkelt messing



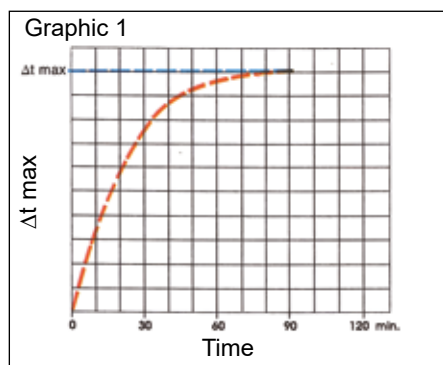
PI/P



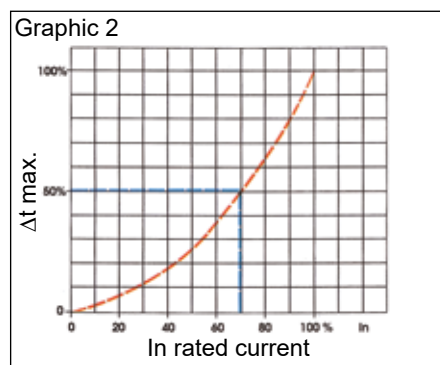
Art.	Color		F	In rated current (Amp.)	Service Voltage (V)	Test Voltage (kV)	L	A	B diam	C max	H	Ø1	Ø2	
PI/P - 4	●	●	M4	25 A	600	4	50	10	15	3	12,5	2,5	8,5	10
PI/P - 6	●	●	M6	50 A	1000	6	65	12	22	5	17	3,5	12,5	10
PI/P - 8	●	●	M8	80 A	1000	6	80	13,5	25	5	21	3,5	15,5	10
PI/P - 10	●	●	M10	120 A	1000	6	95	15	30	5	28	4,5	17,5	10
PI/P - 12	●	●	M12	200 A	1000	6	105	17	35	5	29	5	20,5	10
PI/P - 16	●	●	M16	300 A	2000	8	135	22	43	7	38	5,5	25,5	5
PI/P - 20	●	●	M20	450 A	2000	8	155	25	54	8	44	6	30,5	5



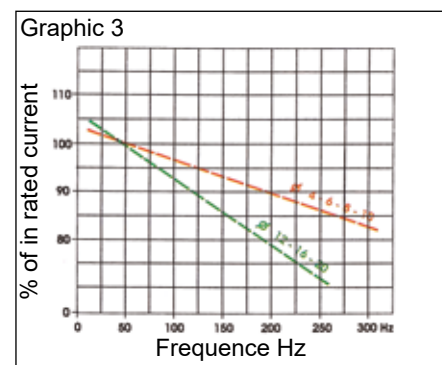
Art.	In rated range (Amp.)	Ambient temperature °C	Δt rod °C	Δt insulator °C
PI/P - 4	25 A	20	10	2
PI/P - 6	50 A	20	14	4
PI/P - 8	80 A	20	26	12
PI/P - 10	120 A	20	34	16
PI/P - 12	200 A	20	38	18
PI/P - 16	300 A	20	47	32
PI/P - 20	450 A	20	49	36



Graphic 1 :
After having connected the rated current for about one hour, the elements in circuit can be considered under thermic conditions.



Graphic 2 :
Δt max is varying according to the % of the in rated current.
Example : Insulator PI/P-16 with in rated current of 300A reach Δt max of 47°C (see table), if it charged with 70% (210A) it will reach a Δt of 50% (or 23,5°C)



Graphic 3 :
Passing insulators can be used with a different frequency according to the temperature indicated in table, as long as the graphic degrading is respected.



Step insulators polyester for busbars
Support escalier en polyester pour busbar
Trapisolator in polyester voor busbars

Article :

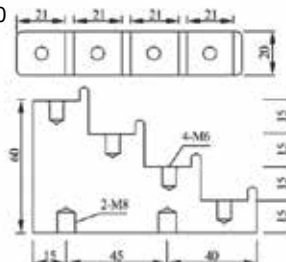
STP

Polyester

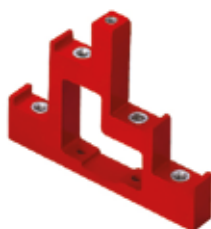
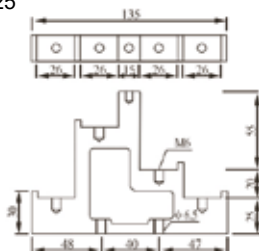
STP2-25



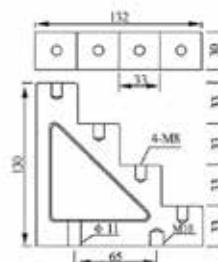
STP4-20



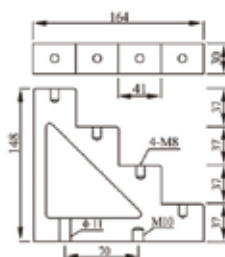
STP5-25



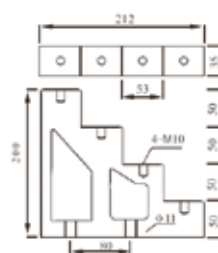
STP4-30



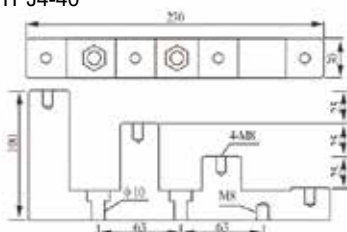
STP4-40



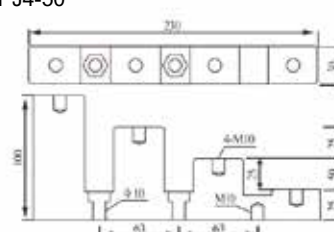
STP4-50



STPJ4-40



STPJ4-50



Article	Color	Bar Setup	Insert mounting holes	Insert material
STP2-15	•	2x15mm	2xM6	Zinc electroplated steel or brass
STP2-25	•	2x25mm	2xM8	Zinc electroplated steel or brass
STP4-20	•	4x20mm	4xM6	Zinc electroplated steel or brass
STP5-25	•	5x25mm	5xM6	Zinc electroplated steel or brass
STPJ4-30	•	4x30mm	4xM8	Zinc electroplated steel or brass
STP4-30	•	4x30mm	4xM8	Zinc electroplated steel or brass
STPJ4-40	•	4x40mm	4xM10	Zinc electroplated steel or brass
STP4-40	•	4x40mm	4xM8	Zinc electroplated steel or brass
STPJ5-50	•	5x50mm	4xM10	Zinc electroplated steel or brass
STP4-50	•	4x50mm	4xM10	Zinc electroplated steel or brass



Pole Support polyester for busbars Support barres en polyester Steunen in polyester voor busbars

Article :

PSB

Assembleable vertical rodholders in polyester material reinforced with fiberglass, red colour suitable for single and parallel rods from 40x6 mm to 120x10 mm.

This rodholder, for the construction characteristics, has an excellent employment where a great insulation capacity and mechanical resistivity are needed.

To realize a rodholder are needed: 2 lateral supports + the necessary number of blocks required to obtain the composition of needed rods.

Support barres vertical en polyester renforcé de fibres de verre de couleur rouge pour une ou plusieurs barres en parallèle de 40x6 mm à 120x10 mm.

Ces supports sont d'un usage pratique en construction de jeux de barres, par leur module mais aussi pour leur parfaite isolation et résistance mécanique.

Pour réaliser un support, 2 flasques suffisent + le nombre de blochets souhaités en fonction du nombre de barres ou de l'intervalle à respecter.

Verticale railsteun in glasvezelversterkt polyester - rode kleur voor één of meerdere parallelle railgeleiders van 40x6 mm tot 120x10 mm.

Deze steunen zijn zeer gebruiksvriendelijk, gezien de aanpassing van de modules maar ook door hun perfecte isolatie en mechanische weerstand. Voor het uitvoeren van een steun volstaan 2 flenzen + het gewenste aantal blokken in functie van het aantal railgeleiders of van de te respecteren tussenafstand.

PSB

Photos copyright BINAME

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PSB 2 + PSB 10



PSB 1 + PSB 10



PSB 120 + PSB 10



PSB 6



PSB 8



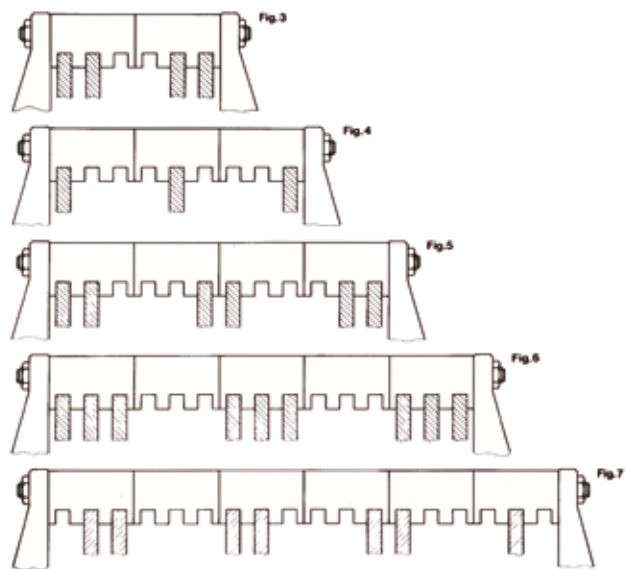
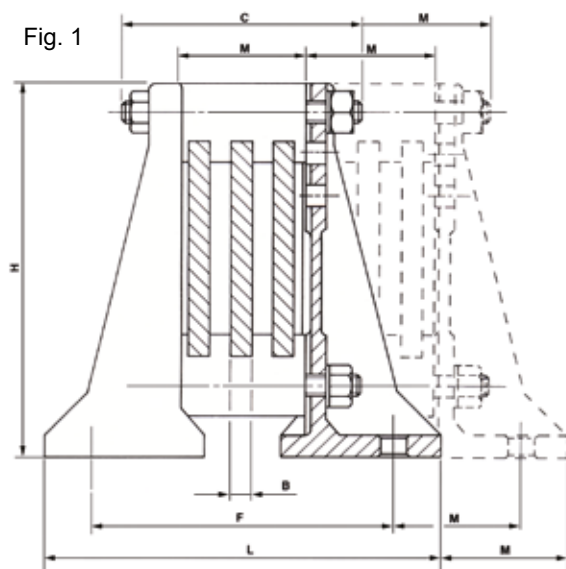
PSB 10

	PSB 2	PSB 2	PSB 1	PSB 1	PSB 1	PSB 120
PSB 6	40 x 6	50 x 6	60 x 6	80 x 6	100 x 6	120 x 6
PSB 8	40 x 8	50 x 8	60 x 8	80 x 8	100 x 8	120 x 8
PSB 10	40 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10

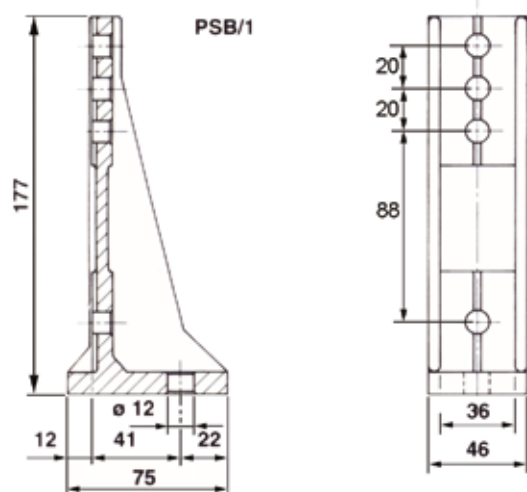
PSB 1 & PSB 2						PSB 1		PSB 2	
Fig.	A	B	C	F	M	L	H	L	H
1	1	6	70	118	36	162	177	152	127
1	1	8	90	130	48	174	177	164	127
1	1	10	100	142	60	186	177	176	127
3	2	6	110	154	36	198	177	188	127
3	2	8	140	178	48	222	177	212	127
3	2	10	160	202	60	246	177	236	127
4	3	6	150	190	36	234	177	224	127
4	3	8	194	226	48	270	177	260	127
4	3	10	230	262	60	306	177	296	127
5	4	6	194	226	36	270	177	260	127
5	4	8	242	274	48	318	177	308	127
5	4	10	290	322	60	366	177	356	127
6	5	6	230	262	36	306	177	296	127
6	5	8	290	322	48	366	177	356	127
6	5	10	350	382	60	426	177	416	127
7	6	6	270	298	36	342	177	332	127
7	6	8	338	370	48	414	177	404	127
7	6	10	410	442	60	486	177	476	127



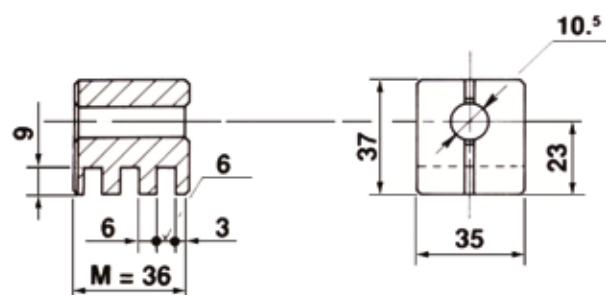
Fig. 1



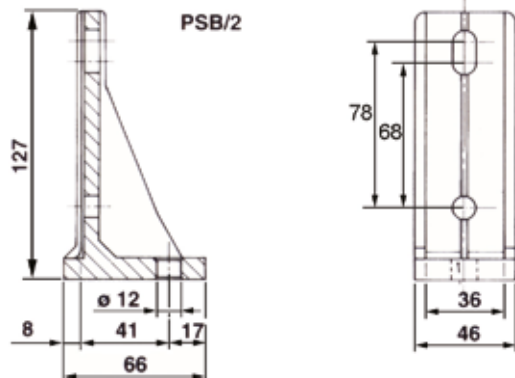
PSB/1



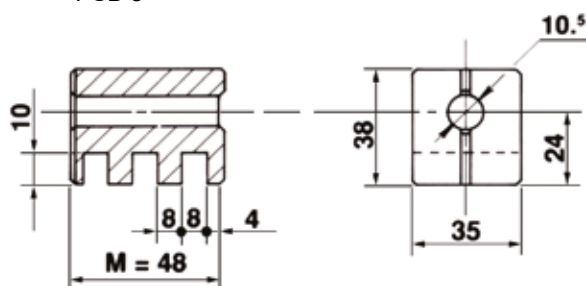
PSB 6



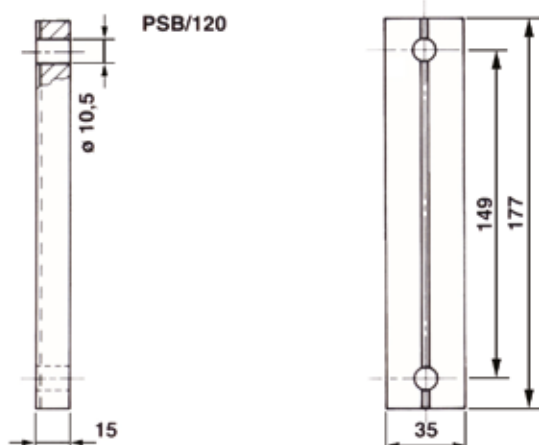
PSB/2



PSB 8



PSB/120



PSB 10

