

Circular damper with leakage class 4/B EN 1751



Air flow control

DLC-T-E



Description

DLC-T: galvanised steel frame th. (see table)

- galvanised steel blade
- outer silicone seal applied on the blade
- Drive shaft Ø 8 / 12 mm (see table)
- bronze bearings for shafts Ø 8 mm (-50°C / +200°C)
- Nylon bearings for shafts Ø 12 mm (-20°C / +70°C)
- Leakage class 4/B EN 1751 up to 2000 Pa
- DIN 1946/4

Available execution (see page 11)

- Intermediate dimensions (larger sizes price list +€52)
- In AISI 304 stainless steel (list price x3)
- In AISI 316L stainless steel (list price x4)
- Frame special dim. <500 mm (list price +30%)
- 8 mm casing return (list price +15%)

DLCTE: like DLCT but with pair of external gaskets for duct assembly
ATEX execution: II 2G Ex h IIB/IIC T1...T6Gb
 II 2D Ex h IIC T 450°C...T 85°C Db (on request)

Accessories (see page 10)

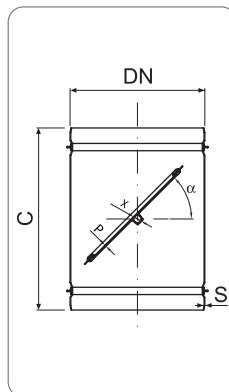
- Manual drive (R9 shaft Ø 8 mm list price €5)
 (R11 shaft Ø 12 mm list price €15)
- Electric actuators/ Pneumatic cylinder
- Atex actuators (see page 12)

All prices are list prices for local market, for a quotation please contact us.

Price list

DN	DLCT	DLCTE	DLCTT ATEX	DLCTE ATEX
100	32	40	126	134
125	35	43	130	138
160	41	49	135	144
200	48	57	142	152
250	52	62	147	157
315	66	77	160	172
355	87	100	182	194
400	111	125	206	219
450	124	141	219	236
500	139	157	234	252

Dimensions



DN [mm]	C [mm]	S [mm]	ØX [mm]	P [mm]
100	200	0.8	8	0.8
125	200	0.8	8	0.8
160	200	0.8	8	0.8
200	200	0.8	8	0.8
250	200	0.8	8	0.8
300	300	1.0	12	1.2
315	300	1.0	12	1.2
355	300	1.0	12	1.2
400	400	1.2	12	1.5
450	400	1.2	12	1.5
500	400	1.2	12	1.5
560	400	1.5	12	2.0
630	400	1.5	12	2.0

Circular damper for “heavy-duty” use

SRCZ



Description

SRCZ: Galvanised steel frame th. 2 mm

- galvanised steel blade th. 2 mm
- metal perimeter seal
- for drive shaft diameter (see table)
- bronze bearings (-50°C / +200°C)
- flanges in black rustproof painted plate, not drilled

Available execution (see page 11)

- Intermediate dimensions (larger sizes price list +€52)
- Flange holes according to Eurovent (list price +€52)
- Special flanges (list price +52 €)
- Version with riveted and welded blade (list price +€52)
- Frame special dim. <500 mm (list price + 30%)
- Produced with th. 3/4/5 mm (on request)
- In AISI 304 stainless steel (list price x2)
- In AISI 316L stainless steel (list price x3)
- R12 galvanised manual drive Ø 12 mm (list price €20 each)
- R12 galvanised manual drive Ø 18 mm (list price € 28 each)
- Electric actuators/ Pneumatic cylinder
- Atex actuators (see page 12)

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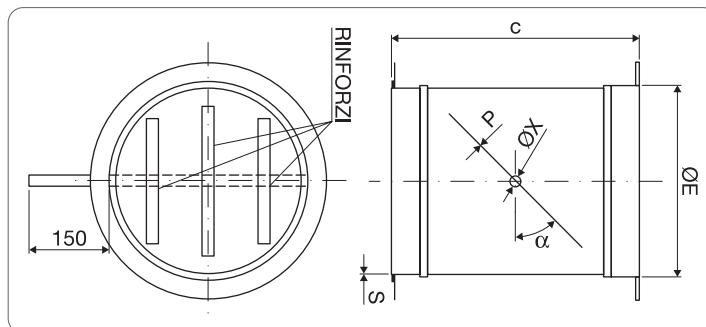
Price list

DN	SRCZ
200	428
250	461
315	588
355	713
400	745
500	810
630	908
800	1005
1000	1265

Dimensions SRCZ

DN	Ø Shaft	C	Flanges
200	12	200	30x3
250	12	200	30x3
315	18	300	40x4
355	18	300	40x4
400	18	400	50x5
500	18	400	50x5
630	18	400	50x5
800	18	500	50x5
1000	18	500	50x5

NB: available up to DN 2000



Selection table for accessories

R12 P18					Electric actuators	
Model damper	Surface (m²)	Ø Shaft	Manual drive	Pneumatic actuator	Torque required	
					On-Off (Nm)	Spring Return (Nm)*
DL 50	< 0.80	Ø 8	R9	Ø 27 stroke 100	5	5
DL 101	< 0.10	Ø 12	R11 or R12	Ø 20 stroke 50	5	10
	< 0.80	Ø 12	R11 or R12	Ø 27 stroke 100	5	10
	< 1.00	Ø 12	R11 or R12	Ø 35 stroke 150	10	20
	< 1.50	Ø 12	R12	Ø 35 stroke 150	10	20
	< 3.00	Ø 12	R12	Ø 35 stroke 150	20	30
	< 3.50	Ø 12	R12	Ø 50 stroke 200	20	30
DL151-201	< 0.10	Ø 12	R11 or R12	Ø 20 stroke 50	5	10
	< 0.80	Ø 12	R11 or R12	Ø 27 stroke 100	5	10
	< 1.00	Ø 12	R11 or R12	Ø 35 stroke 150	10	20
	< 1.50	Ø 12	R12	Ø 35 stroke 150	10	20
	< 3.00	Ø 12	R12	Ø 35 stroke 150	20	30
	< 3.50	Ø 12	R12	Ø 50 stroke 200	20	30
	< 6.00	Ø 12	R12	Ø 50 stroke 200	40	60
DL 151T / DL 201 T	< 0.20	Ø 18	R12 P18	Ø 27 stroke 100	See table	
	< 1.50	Ø 18	R12 P18	Ø 35 stroke 150		
	< 2.20	Ø 18	R12 P18	Ø 50 stroke 200		
	< 3.00	Ø 18	R12 P18	Ø 50 stroke 200		
	< 4.00	Ø 18	R12 P18	Ø 50 stroke 200		
DLC / DLC-T / SRCZ	100/250	Ø 8	R9	Ø 20 stroke 50	5	5
	315/450	Ø 12	R11 or R12	Ø 27 stroke 100	5	10
	500/710	Ø 12	R11 or R12	Ø 27 stroke 100	10	20
SRCZ	800/1050	Ø 18	R12 special	Ø 27 stroke 100	10	20
	1100/1500	Ø 25	R12 special	Ø 35 stroke 150	20	40
	1600/2000	Ø 30	R12 special	Ø 50 stroke 200	40	60

*NB: for spring return actuators - check during production stage.

DL 151 T / DL 201 T selection table Leakage Class 4 - EN 1751

		HEIGHT										
		No. of blades	1	2	3	4	5	6	7	8	9	10
		DL 151T	160	310	460	610	760	910	1060	1210	1360	1510
BASE		DL 201T	210	410	610	810	1010	1210	1410	1610	1810	2010
200			5 Nm									
400			5 Nm									
600			10 Nm									
800			10 Nm				30 Nm			40 Nm		
1000					20 Nm		30 Nm			40 Nm		
1200												
1400												
1600												
1800											50 Nm	
2000												

DL 151 T / DL 201 T selection table Leakage Class 3 - EN 1751

		HEIGHT										
		No. of blades	1	2	3	4	5	6	7	8	9	10
		DL 151T	160	310	460	610	760	910	1060	1210	1360	1510
BASE		DL 201T	210	410	610	810	1010	1210	1410	1610	1810	2010
200												
400												
600				7/10 Nm								
800												
1000												
1200						15 Nm						
1400										30 Nm		
1600												
1800												40 Nm
2000												

BELIMO ON-OFF price list - running time 150 sec.

Model	5 Nm Price list €
LM24A	183
LM24A-S	209
LM230A	183
LM230A-S	209
LM24A-SR	249
LM230A-SR	296

Model	10 Nm Price list €
NM24A	225
NM24A-S	270
NM230A	233
NM230A-S	278
NM24A-SR	325
NM230ASR	373

Model	20 Nm Price list €
SM24A	259
SM24A-S	323
SM230A	264
SM230A-S	329
SM24A-SR	369
SM230ASR	416

Model	40 Nm Price list €
GM24A	457
GM230A	465
GM24A-SR	551

All prices are list prices for local market, for a quotation please contact us.

BELIMO spring return price list (spring 20 sec. / motor 75 sec.)

Model	4 Nm Price list €
LF24	293
LF24-S	338
LF230	318
LF230-S	361
LF24-SR	395

Model	10 Nm Price list €
NFA	433
NFA-S2	493
NF24A	364
NF24A-S2	414
NF24A-SR	438
NF24A-SR-S2	487

Model	20 Nm Price list €
SFA	517
SFA-S2	564
SF24A	449
SF24A-S2	498
SF24A-SR	520
SF24A-SR-S2	555

Model	30 Nm Price list €
EF24A	908
EF24A-S2	972
EF230A	1043
EF230A-S2	1108
EF24A-SR	1026
EF24A-SR-S2	1089

BELIMO ON-OFF price list -fast running 35 sec.

Model	5 Nm Price list €
LMC24A	189
LMC230A	189
LMC24A-SR	256

Model	10 Nm Price list €
NMC24A-MP	379

Model	20 Nm Price list €
SMC24A-MP	427

Model	Micro Price list €
S1A 1 MICRO	76
S2A 2 MICRO	100
S2A-F (LF-NF-SF)	150

BELIMO ON-OFF price list - super fast running time 2.5 / 20 sec.

Model	4 Nm - 2.5 sec Price list €
LMQ24A	371
LMQ24A-SR	384
NMQ24A	409

Model	8 Nm - 4 sec Price list €
NMQ24A	409
NMQ24A-SR	460

Model	8 Nm - 20 sec Price list €
NMD230A	384

Model	16 Nm - 7 sec Price list €
SMQ24A	445
SMQ24A-SR	509

Model	16 Nm - 20 sec Price list €
SMD24A	358
SMD230A	419

WAIRCOM pneumatic cylinders price list

Dimensions	With support, shaft and linkage with double acting cylinder Price list €
D.20 L=50	138
D.27 L=100	173
D.35 L=150	230
D.50 L=200	374
D.70 L=200	501
D.85 L=200	645

Dimensions	Including solenoid valve, regulator and 24 or 230V coil to indicate when ordering Price list €
D.20 L=50	472
D.27 L=100	507
D.35 L=150	564
D.50 L=200	714
D.70 L=200	973
D.85 L=200	1112

Actuator assembly

Brand	Price list €
BELIMO	35
SIEMENS	35
SCHISCHEK	200*
Others	

*: including FAT
FAT other motors €60

MANUAL DRIVES price list

Model	Price list €
R9 GALVANISED	5
R9 304 STAINLESS STEEL	7
R9 316 STAINLESS STEEL	9
R10 GALVANISED	11
R10 304 STAINLESS STEEL	13
R10 316 STAINLESS STEEL	17
R11 GALVANISED	15
R11 304 STAINLESS STEEL	25
R11 316 STAINLESS STEEL	32
R12 GALVANISED	21
R12 304 STAINLESS STEEL	32
R12 316 STAINLESS STEEL	42
R12 P18 GALVANISED	28
R12 P18 X304	45
R12 P18 X316	58

Model	Price list €
Front manual drive	
R13 GALVANISED	38
R13 304 STAINLESS STEEL	50
R13 316 STAINLESS STEEL	64
Joint	
R14 GALVANISED	12
R14 304 STAINLESS STEEL	21
R14 316 STAINLESS STEEL	27
R20 GALVANISED	20
R20 304 STAINLESS STEEL	49
R20 316 STAINLESS STEEL	64
Assembly plate, internal flow control	
R21 ALUMINIUM	70
R21 GALVANISED	62
R21 304 STAINLESS STEEL	146
R21 316 STAINLESS STEEL	190

Accessory price list

BEARING OPTIONS	FIXED COST	PRICE LIST €	UNIT
GALVANISED BEARINGS D.12	0	31	€/ Blade
304 STAINLESS STEEL BEARINGS D.12	0	52	€/ Blade
316 STAINLESS STEEL BEARINGS D.12	0	69	€/ Blade
GALVANISED BEARINGS D.18	0	58	€/ Blade
304 STAINLESS STEEL BEARINGS D.18	0	86	€/ Blade
316 STAINLESS STEEL BEARINGS D.18	0	92	€/ Blade

BEARINGS OPTIONS	FIXED COST	PRICE LIST €	UNIT
TEFLON BEARINGS D.12	0	7	€/ Blade
TEFLON BEARINGS D.18	0	14	€/ Blade

BEARINGS OPTIONS	FIXED COST	PRICE LIST €	UNIT
BRONZE BEARINGS D.6	0	+ 5 %	EACH
BRONZE BEARINGS D.8	0	+ 5 %	EACH
BRONZE BEARINGS D.12	0	+ 5 %	EACH
BRONZE BEARINGS D.18	0	+ 5 %	EACH

SPOT WELDING OPTIONS	FIXED COST	PRICE LIST €	UNIT
SPOT WELDING ON LINKAGES	0	10	€/ Blade

NUT OPTIONS	FIXED COST	PRICE LIST €	UNIT
SELF-LOCKING NUTS ON LINKAGES	0	+ 5 %	EACH
SELF-LOCKING NUTS ON BLADES	0	+ 5 %	EACH

DRILLING OPTIONS	FIXED COST	PRICE LIST €	UNIT
FLANGE ON DEMAND	0	52	EACH

DRIVE SHAFTS OPTIONS	FIXED COST	PRICE LIST €	UNIT
SQUARE DRIVE SHAFT	0	52	EACH
DRIVE SHAFT >100	0	23	EACH

SHAFTS OPTIONS	FIXED COST	PRICE LIST €	UNIT
304 STAINLESS STEEL SHAFTS AND LINKAGES D.12	0	12	€/ Blade
316L STAINLESS STEEL SHAFTS AND LINKAGES D.12	0	17	€/ Blade
304 STAINLESS STEEL SHAFTS AND LINKAGES D.18	0	29	€/ Blade
316L STAINLESS STEEL SHAFTS AND LINKAGES D.18	0	38	€/ Blade

SHAFTS OPTIONS	FIXED COST	PRICE LIST €	UNIT
GALVANISED STUB SHAFT D.18	0	13	€/ Blade
304 STAINLESS STEEL STUB SHAFT D.18	0	20	€/ Blade
316L STAINLESS STEEL STUB SHAFT D.18	0	23	€/ Blade

SHAFTS OPTIONS	FIXED COST	PRICE LIST €	UNIT
GALVANISED STEEL CONTINUOUS SOLID SHAFTS D.6	13	3	€/ m
GALVANISED STEEL CONTINUOUS SOLID SHAFTS D.8	16	5	€/ m
GALVANISED STEEL CONTINUOUS SOLID SHAFTS D.12	20	10	€/ m
GALVANISED STEEL CONTINUOUS SOLID SHAFTS D.18	23	22	€/ m

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SHAFTS OPTIONS	FIXED COST	PRICE LIST €	UNIT
304 STAINLESS STEEL CONTINUOUS SOLID SHAFTS D.6	13	5	€/ m
304 STAINLESS STEEL CONTINUOUS SOLID SHAFTS D.8	16	7	€/ m
304 STAINLESS STEEL CONTINUOUS SOLID SHAFTS D.12	20	15	€/ m
304 STAINLESS STEEL CONTINUOUS SOLID SHAFTS D.18	23	33	€/ m

SHAFTS OPTIONS	FIXED COST	PRICE LIST €	UNIT
316L STAINLESS STEEL CONTINUOUS SOLID SHAFTS D.6	13	6	€/ m
316L STAINLESS STEEL CONTINUOUS SOLID SHAFTS D.8	16	10	€/ m
316L STAINLESS STEEL CONTINUOUS SOLID SHAFTS D.12	20	20	€/ m
316L STAINLESS STEEL CONTINUOUS SOLID SHAFTS D.18	23	46	€/ m

LINKAGE COVER PLATE OPTIONS	FIXED COST	PRICE LIST €	UNIT
GALVANISED LINKAGE COVER PLATE	0	58	€/ m
ALUMINIUM LINKAGE COVER PLATE	0	58	€/ m
304 STAINLESS STEEL LINKAGE COVER PLATE	0	92	€/ m
316L STAINLESS STEEL LINKAGE COVER PLATE	0	115	€/ m

LINKAGE OPTIONS	FIXED COST	PRICE LIST €	UNIT
GALVANISED DOUBLE LINKAGE	0	17	€/ Blade
304 STAINLESS STEEL DOUBLE LINKAGE	0	29	€/ Blade
316L DOUBLE LINKAGE	0	40	€/ Blade

GASKET OPTIONS	FIXED COST	PRICE LIST €	UNIT
SILICONE GASKET	0	35	€/ Blade

PACKAGED PRODUCT OPTIONS	FIXED COST	PRICE LIST €	UNIT
PACKAGED PRODUCT ASSEMBLY	0	+ 15 %	EACH

CASING OPTIONS	FIXED COST	PRICE LIST €	UNIT
SPECIAL CASING < 210 mm	0	52	EACH
SPECIAL CASING <300 mm	0	104	EACH

VERTICAL OPTIONS	FIXED COST	PRICE LIST €	UNIT
VERTICAL OPERATION	0	+ 10 %	EACH

WIRE MESH OPTIONS	FIXED COST	PRICE LIST €	UNIT
ALUMINIUM WIRE MESH	0	115	€/ sqm
304 STAINLESS STEEL WIRE MESH	0	144	€/ sqm
316L STAINLESS STEEL WIRE MESH	0	173	€/ sqm
304 STAINLESS STEEL WIRE MESH	0	184	€/ sqm
316L STAINLESS STEEL WIRE MESH	0	219	€/ sqm

SUPPORT OPTIONS	FIXED COST	PRICE LIST €	UNIT
GALVANISED STEEL HEAT INSULATED SUPPORT	0	161	EACH
304 STAINLESS STEEL HEAT INSULATED SUPPORT	0	213	EACH
316L STAINLESS STEEL HEAT INSULATED SUPPORT	0	230	EACH

FLANGE DRILLING OPTIONS AS PER ISO 15138 (list price +€52)

ZONE 1

Spring return 24-230V

All prices are list prices for local market, for a quotation please contact us.

	Zone 1		Opening	Closing	Price list €
	Model	Torque (Nm)	Motor running time (seconds)	Spring return (seconds)	
ON-OFF, 3 points, 2 micro switches	EX MAX 5.10 - SF	5-10	3/15/30/60/120	3 - 10	3055
ON-OFF, 3 points, 2 micro switches	EX MAX 15 - SF	15	3/15/30/60/120	3 - 10	3388
ON-OFF, 3 points, 2 micro switches	EX MAX 30 - SF	30	40/60/90/120/150	20	4746
ON-OFF, 3 points, 2 micro switches	EX MAX 50 - SF	50	40/60/90/120/150	20	5422

Modulating spring return 24-230V

	Zone 1		Opening	Closing	Price list €
	Model	Torque (Nm)	Motor running time (seconds)	Spring return (seconds)	
3 POINTS, 0...10 Volt 4...20 m	EX MAX 5.10 - YF	5-10	7.5/15/30/60/120	3 - 10	3263
3 POINTS, 0...10 Volt 4...20 m	EX MAX 15 - YF	15	7.5/15/30/60/120	3 - 10	3594
3 POINTS, 0...10 Volt 4...20 m	EX MAX 30 - YF	30	40/60/90/120/150	20	5287
3 POINTS, 0...10 Volt 4...20 m	EX MAX 50 - YF	50	40/60/90/120/150	20	5961

Spring return 24-230V - Offshore - Closure in 1 second

	Zone 1		Opening	Closing	Price list €
	Model	Torque (Nm)	Motor running time (seconds)	Spring return (seconds)	
ON-OFF, 2 micro switches	EX MAX 8 - SF1	8	3/15/30/60/120	1	3685
ON-OFF, 2 micro switches	EX MAX 15 - SF1	15	3/15/30/60/120	1	3855

Spring return 24-230V - Offshore - Closure in 3 seconds

	Zone 1		Opening	Closing	Price list €
	Model	Torque (Nm)	Motor running time (seconds)	Spring return (seconds)	
ON-OFF, 2 micro switches	EX MAX 30 - SF3	30	40/60/90/120/150	3	5863
ON-OFF, 2 micro switches	EX MAX 50 - SF3	50	40/60/90/120/150	3	6532

Accessories	Model	Price list €
MICRO	EX SWITCH	679
JUNCTION BOX	EXBOX Y/S	308
JUNCTION BOX WITH MICRO	EXBOX Y/S/SW	338
BRACKET FOR JUNCTION BOX 5/10/15 Nm	MKK-S	55
BRACKET FOR JUNCTION BOX 30/50 Nm	MKK-M	73
NICKEL PLATED CABLE GLAND KIT FOR ACTUATOR	KIT-S8-MAX	39
CABLE GLAND KIT FOR JUNCT. NICKEL PLATED JUNCTION BOX	KIT-S8-BOX	103

Actuators assembled, square drive shaft and FAT

ZONE 2

Spring return 24-230V

All prices are list prices for local market, for a quotation please contact us.

	Zone 2		Opening	Closing	Price list €
	Model	Torque (Nm)	Motor running time (seconds)	Spring return (seconds)	
ON-OFF, 3 points, 2 micro switches	RED MAX 5.10 - SF	5-10	3/15/30/60/120	3 - 10	2685
ON-OFF, 3 points, 2 micro switches	RED MAX 15 - SF	15	3/15/30/60/120	3 - 10	3066
ON-OFF, 3 points, 2 micro switches	RED MAX 30 - SF	30	40/60/90/120/150	20	4410
ON-OFF, 3 points, 2 micro switches	RED MAX 50 - SF	50	40/60/90/120/150	20	5084

Modulating spring return 24-230V

	Zone 2		Opening	Closing	Price list €
	Model	Torque (Nm)	Motor running time (seconds)	Spring return (seconds)	
3 POINTS, 0...10 Volt 4...20 m	RED MAX 5.10 - YF	5-10	7.5/15/30/60/120	3 - 10	2888
3 POINTS, 0...10 Volt 4...20 m	RED MAX 15 - YF	15	7.5/15/30/60/120	3 - 10	3224
3 POINTS, 0...10 Volt 4...20 m	RED MAX 30 - YF	30	40/60/90/120/150	20	4949
3 POINTS, 0...10 Volt 4...20 m	RED MAX 50 - YF	50	40/60/90/120/150	20	5623

Spring return 24-230V - Offshore - Closure in 1 second

	Zone 2		Opening	Closing	Price list €
	Model	Torque (Nm)	Motor running time (seconds)	Spring return (seconds)	
ON-OFF, 2 micro switches	RED MAX 8 - SF1	8	3/15/30/60/120	1	3347
ON-OFF, 2 micro switches	RED MAX 15 - SF1	15	3/15/30/60/120	1	3514

Spring return 24-230V - Offshore - Closure in 3 seconds

	Zone 2		Opening	Closing	Price list €
	Model	Torque (Nm)	Motor running time (seconds)	Spring return (seconds)	
ON-OFF, 2 micro switches	RED MAX 30 - SF3	30	40/60/90/120/150	3	5486
ON-OFF, 2 micro switches	RED MAX 50 - SF3	50	40/60/90/120/150	3	6162

Accessories	Model	Price list €
MICRO	RED SWITCH	635
JUNCTION BOX	REDBOX Y/S	276
JUNCTION BOX WITH MICRO	REDBOX Y/S/SW	308
BRACKET FOR JUNCTION BOX 5/10/15 Nm	MKK-S	55
BRACKET FOR JUNCTION BOX 30/50 Nm	MKK-M	73
NICKEL PLATED CABLE GLAND KIT FOR ACTUATOR	KIT-S8-MAX	39
NICKEL PLATED CABLE GLAND KIT FOR ACTUATOR	KIT-S8-BOX	103

Special executions	Model	Price list €
SURCHARGE FOR STAINLESS STEEL 5/10/15 Nm	MAX VAS	1691
SURCHARGE FOR STAINLESS STEEL 30/50 Nm	MAX VAM	3596
SURCHARGE FOR MARINE COATING 5/10/15 Nm	MAX CTS	676
SURCHARGE FOR MARINE COATING 30/50 Nm	MAX CTM	1014
SURCHARGE FOR STAINLESS STEEL JUNCTION BOX	BOX../VA	610
SURCHARGE FOR JUNCTION BOX MARINE COATING	BOX../CT	308
SURCHARGE FOR MICRO MARINE COATING	SWITCH../CT	308