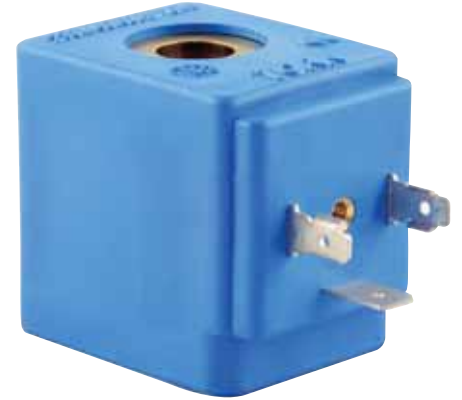


COIL CHARACTERISTICS

Coils in the catalogue pages are identified by their electrical characteristics such as;

Continuous Duty : ED %100
 Coil insulation class : H (180°C)
 Coil impregnation : Polyester Fiber Glass
 Coil Encapsulation Material : Fiber Glass Reinforced
 Minimum and maximum ambient temperature : from -10°C ; +60°C
 Protection degree : Generally IP 65 (EN 60529) with coil duly fitted with the plug connector

Connector specification or type of connector, mostly with ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø 6-8 mm) or small connector
 Electric plug connection : DIN 46340 3-poles connectors (DIN 43650)
 Electrical safety : IEC 335

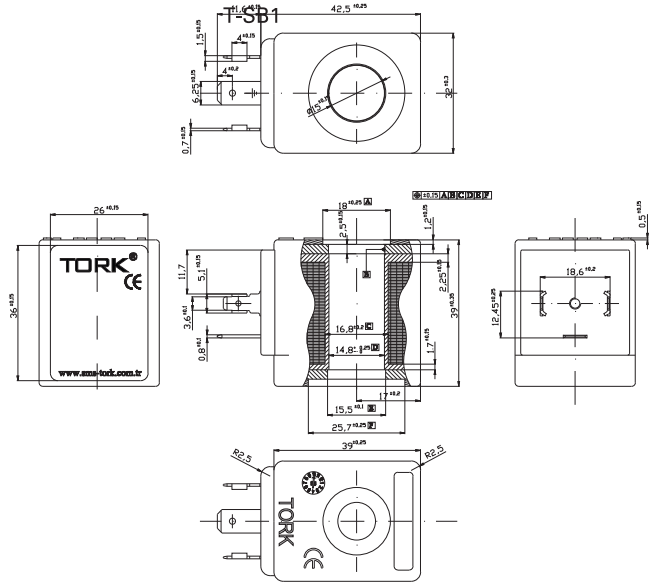


STANDARD VOLTAGES

The standard voltages indicated in the catalogue are as follows;

Standard Voltages : For AC 12V , 24V , 48V , 110V , 230V
 For DC 12V , 24V , 48V , 110 V

Other voltages on request : For AC %-15 ; %+10 , For DC %-5 ; %+10
 Voltage Tolerance : For AC %-15 ; %+10 , For DC %-5 ; %+10
 Frequency : 50 Hz, other frequencies on request (60 Hz)
 On request connector with LED



POWER RATINGS					
Alternating Current (AC)					
Valve Type / Order no	New Valve Type / Order no	Voltage	Inrush VA	Hold VA	Current
T-SB10	C10.02	230 V	29,76	18,93	82,30 mA
T-SB11	C10.05	110 V	28,77	17,63	160,30 mA
T-SB17	C10.06	48 V	24,62	14,57	303,60 mA
T-SB12	C10.08	24 V	27,46	17,40	725,00 mA
T-SB13	C10.09	12 V	26,53	18,24	1,52 A
T-SB10.1	C10.04	230 V	47,16	32,59	141,70 mA
T-SB16	C10.01	380 V	24,72	12,54	33,00 mA

POWER RATINGS				
Direct Current (DC)				
Valve Type Order No	New Valve Type / Order no	Voltage	Cold State	Current
T-SB19	C10.13	110 V	18.30 W	0.166 A
T-SB5	C10.16	48 V	15.70 W	0.326 A
T-SB14	C10.18	24 V	20.90 W	0.870 A
T-SB15	C10.21	12 V	17.80 W	1.480 A
T-SB18	C10.12	196 V	12.00 W	0.061 A
T-SB1	C10.14	85 V	15.00 W	0.177 A
T-SB2	C10.15	72 V	13.70 W	0.190 A

Useful Informations

1 bar:14,5 PSI:10 mH₂O:10 N/cm²:1 kg/cm²:100000 Pa, 1 PSI:69 mbar,1 m³/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m³/h, 0°C:89,6 F
 Sealings:NBR:Nitrile-Butylene Elastomer, FPM (VITON):Fluoro-Carbon Elastomer, EPDM:Ethylene-Propylene Elastomer

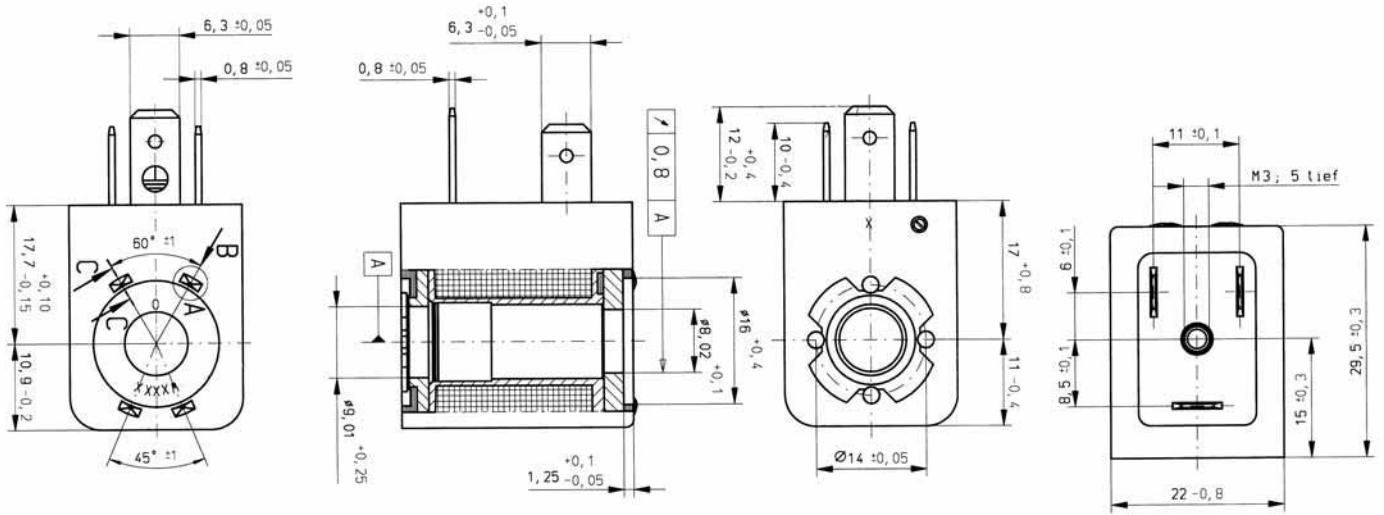
COIL CHARACTERISTICS

Coils in the catalogue pages are identified by their electrical characteristics such as ;
 Continuous Duty : ED %100
 Coil insulation class : H (180°C)
 Coil impregnation : Polyester Fiber Glass
 Coil Encapsulation Material : Fiber Glass Reinforced
 Minimum and maximum ambient temperature : from -10°C ; +60°C
 Protection degree : Generally IP 65 (EN 60529) with coil duly fitted with the plug connector
 Power : for DC 5.5 W, for AC 6 VA 8.5 VA
 Electric plug connection : DIN 46340 3-poles connectors (DIN 43650)
 Electrical safety : IEC 335
 Insulation class of insulating materials according to DIN VDE 0580
 Deg. of protection with mounted plug-in connector according to IEC 529



STANDARD VOLTAGES

The standard voltages indicated in the catalogue are as follows ;
 Standard Voltages : For AC 12V , 24V , 48V , 110V , 230V
 For DC 12V , 24V , 48V , 110 V
 Other voltage on request
 Voltages Tolerance : For AC %-15 ; %+10 , For DC %-5 ; %+10
 Frequency : 50 Hz, other frequencies on request (60 Hz)
 On request connector with LED



Valve Type / Order no	New Valve Type / Order no	Coil Voltage
T-SB	C20	Volt
T-SB 20	C20.01	230 V AC
T-SB 21	C20.02	110 V AC
T-SB 22	C20.03	24 V AC
T-SB 23	C20.04	12 V AC
T-SB 24	C20.05	24 V DC
T-SB 25	C20.06	12 V DC

Useful Informations

1 bar:14,5 PSI:10 mH₂O:10 N/cm²:1 kg/cm²:100000 Pa, 1 PSI:69 mbar,1 m³/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m³/h, 0°C:89,6 F
 Sealings:NBR:Nitrile-Butylene Elastomer, FPM (VITON):Fluoro-Carbon Elastomer, EPDM:Ethylene-Propylene Elastomer

COIL CHARACTERISTICS

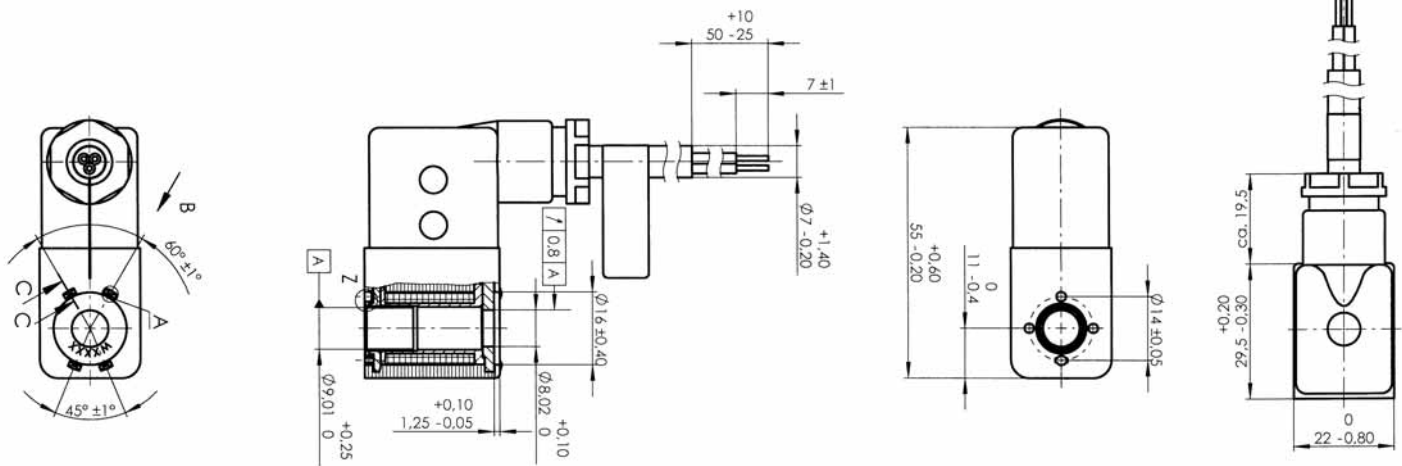
Coils in the catalogue pages are identified by their electrical characteristics such as ;
 Continuous Duty : ED %100
 Coil insulation class : H (180°C)
 Coil Impregnation : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
 Explosionproof operator, intended for use in potentially explosive atmospheres
 Easy electrical installation by means of the cable, standard length 1 meter
 Safety mode : EEx em II T4 (Max Surface Temperature : 135°C
 em: encapsulation safety , II : Equipment group)
 Minimum and maximum ambient temperature : from -10°C ; +50°C
 Power : for DC 4.5 to 5 W, for AC 3.8 to 5.5 VA
 Protection degree : Generally IP 65 (EN 60529) with coil duly fitted with the plug connector
 Electric plug connection : DIN 46340 3-poles connectors (DIN 43650)
 Electrical safety : IEC 335
 On request maximum surface temperature T5 = 100°C or T6 = 85°C
 Ambient Temperature : -20°C...+50°C
 Insulation class of insulating materials according to DIN VDE 0580
 Deg. of Protection with mounted plug-in connector according to IEC 529
 These coils are approved according to EN 50028
 DIN VDE 0170/0171, part 9 by the PTB and according to 94/9 EG (Atex 100a)

Atex Certificated



STANDARD VOLTAGES

The standard voltages indicated in the catalogue are as follows ;
 Standard Voltages : For AC 12V , 24V , 48V , 110V , 230V
 For DC 12V , 24V , 48V , 110 V
 Other voltage on request
 Voltages Tolerance : For AC %-15 ; %+10 , For DC %-5 ; %+10
 Frequency : 50 Hz, other frequencies on request (60 Hz)
 On request connector with LED



Valve Type / Order no	New Valve Type / Order no	Coil Voltage	Protection Ex, Certificates
T-SB	C21	Volt	
T-ExSB 20	C21.01	230 V AC	EEx em II T4
T-ExSB 21	C21.02	110 V AC	EEx em II T4
T-ExSB 22	C21.03	24 V AC	EEx em II T4
T-ExSB 23	C21.04	12 V AC	EEx em II T4
T-ExSB 24	C21.05	24 V DC	EEx em II T4
T-ExSB 25	C21.06	12 V DC	EEx em II T4

Alternating Current (AC)			
Valve Type Order No	New Valve Type Order No	Voltage	Power Ratings
T-ExSB 60	C21.07	240 V	5.5 VA
T-ExSB 20	C21.01	230 V	4.8 VA
T-ExSB 61	C21.09	120 V	4.5 VA
T-ExSB 21	C21.02	110 V	3.8 VA
T-ExSB 62	C21.08	200 V	5.2 VA
T-ExSB 63	C21.10	36 V	5.2 VA
T-ExSB 22	C21.03	24 V	4.6 VA

Direct Current (DC)			
Valve Type Order No	New Valve Type Order No	Voltage	Power Ratings
T-ExSB 64	C21.11	125 V	5 W
T-ExSB 65	C21.12	110 V	5 W
T-ExSB 66	C21.13	48 V	4.7 W
T-ExSB 24	C21.05	24 V	5 W
T-ExSB 25	C21.06	12 V	4.5 W
-	-	-	-
-	-	-	-

Useful Informations

1 bar:14,5 PSI:10 mH₂O:10 N/cm²:1 kg/cm²:100000 Pa, 1 PSI:69 mbar,1 m³/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m³/h, 0°C:89,6 F
 Sealings:NBR:Nitrile-Butylene Elastomer, FPM (VITON):Fluoro-Carbon Elastomer, EPDM:Ethylene-Propylene Elastomer

COIL CHARACTERISTICS

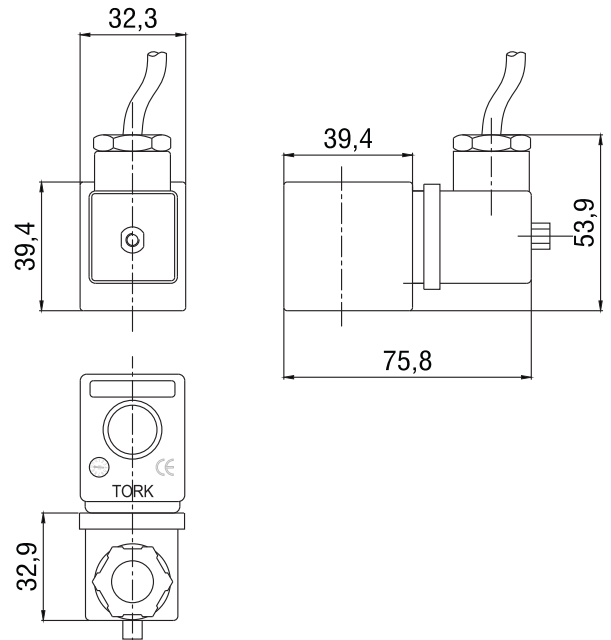
Coils in the catalogue pages are identified by their electrical characteristics such as ;
 Continuous Duty : ED %100
 Coil insulation class : H (180°C)
 Coil Impregnation : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
 Explosion proof operator, intended for use in potentially explosive atmospheres
 Easy electrical installation by means of the cable, standard length 3 meters
 Safety mode : EEx em II T4/T5 (Max Surface Temperature : 100°C -135°C , em: encapsulation increased safety , II: Equipment group)
 Minimum and maximum ambient temperature : from -10°C ; +60°C
 Protection degree: Generally IP 65 (EN 60529) with coil duly fitted with the plug connector
 Connector specification or type of connector, mostly with ISO 4400 / EN 175301-803, Form A,
 Spade plug (Cable Ø 6-8 mm) or small connector
 Electric plug connection : DIN 46340 3-poles connectors (DIN 43650)
 Electrical safety : IEC 335
 Exproof coils for use in zone 1 and zone 2



C11

STANDARD VOLTAGES

The standard voltages indicated in the catalogue are as follows ;
 Standard Voltages : For AC 12V , 24V , 48V , 110V , 230V
 For DC 12V , 24V , 48V , 110 V
 Other voltages on request
 Voltage Tolerances : For AC %-15 ; %+10 , For DC %-5 ; %+10
 Frequency : 50 Hz, other frequencies on request (60 Hz)
 On request connector with LED



POWER RATINGS					
Alternating Current (AC)					
Valve Type / Order no	New Valve Type / Order no	Voltage	Inrush VA	Hold VA	Current
T-ExSB10	C11.02	230 V	29,76	18,93	82,30 mA
T-ExSB11	C11.05	110 V	28,77	17,63	160,30 mA
T-ExSB17	C11.06	48 V	24,62	14,57	303,60 mA
T-ExSB12	C11.08	24 V	27,46	17,40	725,00 mA
T-ExSB13	C11.09	12 V	26,53	18,24	1,52 A
T-ExSB10.1	C11.04	230 V	47,16	32,59	141,70 mA
T-ExSB16	C11.01	380 V	24,72	12,54	33,00 mA

POWER RATINGS				
Direct Current (DC)				
Valve Type Order No	New Valve Type / Order no	Voltage	Cold State	Current
T-ExSB19	C11.13	110 V	18.30 W	0.166 A
T-ExSB5	C11.16	48 V	15.70 W	0.326 A
T-ExSB14	C11.18	24 V	20.90 W	0.870 A
T-ExSB15	C11.21	12 V	17.80 W	1.480 A
T-ExSB18	C11.12	196 V	12.00 W	0.061 A
T-ExSB1	C11.14	85 V	15.00 W	0.177 A
T-ExSB2	C11.15	72 V	13.70 W	0.190 A

Useful Informations

1 bar:14,5 PSI:10 mH₂O:10 N/cm²:1 kg/cm²:100000 Pa, 1 PSI:69 mbar,1 m³/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m³/h, 0°C:89,6 F
 Sealings:NBR:Nitrile-Butylene Elastomer, FPM (VITON):Fluoro-Carbon Elastomer, EPDM:Ethylene-Propylene Elastomer

COIL CHARACTERISTICS

Coils in the catalogue pages are identified by their electrical characteristics such as ;
 Continuous Duty : ED %100
 Coil insulation class : H (180°C)
 Coil Impregnation : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
 Explosionproof operator, intended for use in potentially explosive atmospheres
 Easy electrical installation by means of the cable, standard length 3 meters
 Safety mode : EEx m II T4 (Max Surface Temperature : 135°C)
 (m: encapsulation increased safety , II: Equipment group)

Minimum and maximum ambient temperature : from -10°C ; +60°C
 Protection degree: Generally IP 65 (EN 60529) with coil duly fitted with the plug connector
 Connector specification or type of connector, mostly with ISO 4400 / EN 175301-803, Form A,
 Spade plug (Cable Ø 6-8 mm) or small connector
 Electric plug connection : DIN 46340 3-poles connectors (DIN 43650)
 Electrical safety : IEC 335

Insulation Class of insulating Materials according to DIN VDE 0580
 Deg. of Protection with mounted plug-in connector according to IEC 529

These coils are approved according to EN 50028
 DIN VDE 0170/0171 , part 9 by the PTB and according to 94/9 EG (Atex 100a)
 The device , which is provided with the CE symbol , meets the following standarts ; EN 50014, EN 50028 , IEC 60079-0, IEC 60079-18,
 EN 50281-1-1, IEC 61241-1-1, EN 60529, EN 61000-6-4, 61000-6-2, DIN VDE 0580, Directive 94/9/EG
 The solenoid operator is an encapsulated safe electrical work equipment group II, designed for application in atmospheres according
 to category 2G and 2D (temperature class and surface temperature as per imprint).

STANDARD VOLTAGES

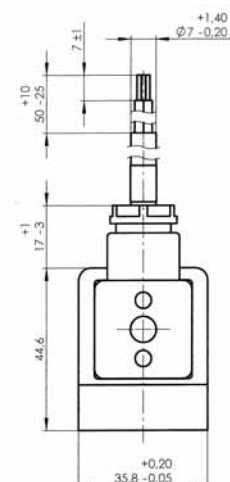
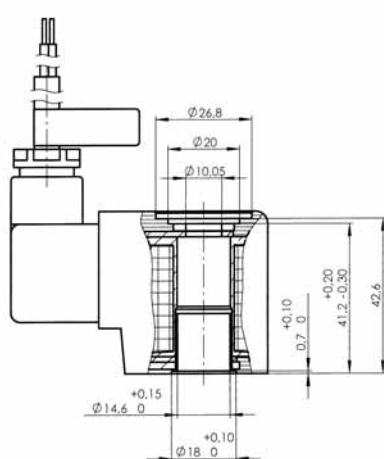
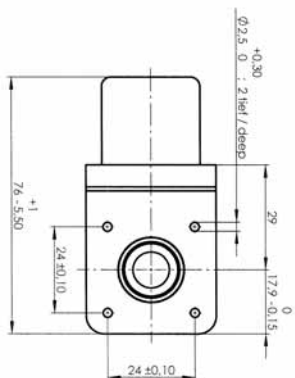
The standard voltages indicated in the catalogue are as follows ;
 Standard Voltages : For AC 12V , 24V , 48V , 110V , 220V, 230V
 For DC 12V , 24V , 48V , 110 V

Other voltage on request
 Voltage Tolerances : For AC %-15 ; %+10 , For DC %-5 ; %+10
 Frequency : 50 Hz, other frequencies on request (60 Hz)
 On request connector with LED

POWER RATING

Power ratings (P) for alternating current coils the inrush power expressed in VA (Volt – Amper)
 Power ratings (P) for direct current coils in the cold state (at inrush of power) W (Watt)

Options:
 II 2G EEx m II T5
 II 2D IP65 T100°C
 For AC 4,4VA -4,9 VA; For DC 4,9W ile 5,1W
 II 2G EEx m II T6
 II 2D IP65 T85°C
 For AC 3,9VA -4,4 VA; For DC 4,7W ile 5,2W



II 2G EEx m II T4
 II 2D IP65 T130°C



Alternating Current (AC)			
Valve Type Order No	New Valve Type / Order no	Voltage	Power Ratings
T-ExSB 30	C12.01	240 V	9.2 VA
T-ExSB 31	C12.02	230 V	8.5 VA
T-ExSB 32	C12.03	220 V	7.7 VA
T-ExSB 33	C12.04	120 V	8.65 VA
T-ExSB 34	C12.05	110 V	9.1 VA
T-ExSB 35	C12.06	24 V	7.2 VA
T-ExSB 36	C12.07	12 V	7.5 VA

Direct Current (DC)			
Valve Type Order No	New Valve Type / Order no	Voltage	Power Ratings
T-ExSB 40	C12.08	220 V	9.5 W
T-ExSB 41	C12.09	110 V	8.4 W
T-ExSB 42	C12.10	48 V	8.9 W
T-ExSB 43	C12.11	24 V	10.1 W
T-ExSB 44	C12.12	12 V	9.9 W
-	-	-	-
-	-	-	-

Useful Informations

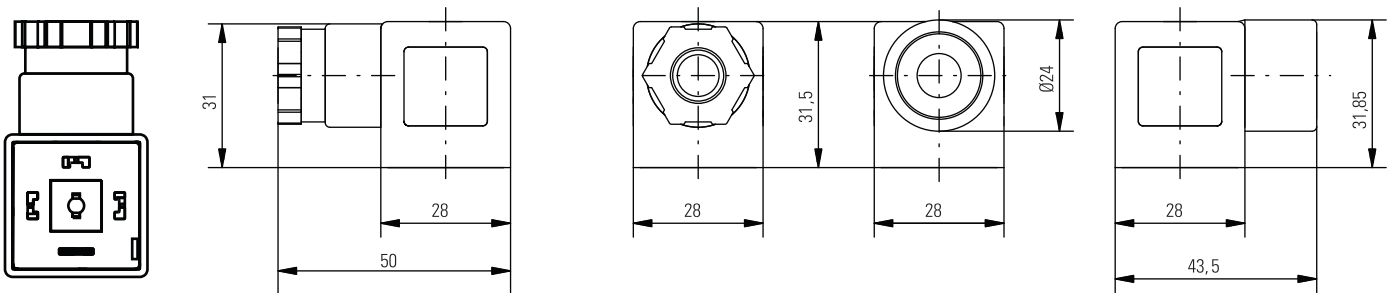
1 bar:14,5 PSI:10 mH2O:10 N/cm²:1 kg/cm²:100000 Pa, 1 PSI:69 mbar,1 m³/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m³/h, 0°C:89,6 F
 Sealings:NBR:Nitrile-Butylene Elastomer, FPM (VITON):Fluoro-Carbon Elastomer, EPDM:Ethylene-Propylene Elastomer

GENERAL DATA

Number of Contacts : 2+earth
 Cable Diameter : 6 to 8 mm
 Protection Rating : IP 65
 Contact Resistance : ≤ 4 mOhm
 Maximum Operating Current : 10 A
 Wire Cross Section : Maximum 1,5 mm² / Clamping Contact
 Wire Cross Section : 0,75 mm² - 1 mm² / Cut Contact
 Ambient Temperature : -25°C ; +80°C
 Operating Temperature : -40°C ; +90°C
 Cable Connection : Screw
 Electrical Safety : IEC 335
 Connectors : Removable
 Electric Plug Connection : DIN 46340 3-poles connectors (DIN 43650)
 Connector Specification : ISO 4400 / EN 175301-803 , Form A, Spade plug
 On request connector with LED
 On request; with a three core 2 m cable
 Special versions : With circuit, flat-and profile gasket ECO, single packing, cable clamp
 Central fixing screw M3 x 33,5
 Maximum operating voltage: 250 V

MATERIALS

Contacts : CuZn , Cu/Sn-Plated
 Terminal Block : PA6+%30FG, Black
 Housing : PA6+%30FG, PA6 (translucent)
 Cover : PA6
 Screws : Steel 37 , zinc-plated
 Gasket : Nitril-LABS-free , profile
 Wire Holder : PA6.6 +50%FG P7, 5, black



Valve Type / Order no	New Valve Type / Order no	Standard	Suitable Coil	Fluid Temperature	Features
T-SK	C80 / C85 / C81 / C86		T-SB	°C	
T-SK 1	C80	DIN 43650 IP65	C10 / C11 / C12	70	Standard
T-SK 2	C85	DIN 43650 IP65	C20 / C21	70	Standard
T-SK 1.L	C81	DIN 43650 IP65	C10 / C11 / C12	70	With LED
T-SK 2.L	C86	DIN 43650 IP65	C20 / C21	70	With LED

Useful Informations

1 bar:14,5 PSI:10 mH₂O:10 N/cm²:1 kg/cm²:100000 Pa, 1 PSI:69 mbar,1 m³/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m³/h, 0°C:89,6 F
 Sealings:NBR:Nitrile-Butylene Elastomer, FPM (VITON):Fluoro-Carbon Elastomer, EPDM:Ethylene-Propylene Elastomer

FEATURES

- (C93)
- Solenoid Valve Controller
 - Selectable Timing Range
 - 24 - 240 VAC 50/60Hz 24 - 240 VDC
 - DIN 43650 ISO-4400/6952
 - IP65 NEMA IV
 - Test Facility
 - Dual Earth O/P 6 & 12 O' Clock. Form A
 - Special Timing Ranges Available on Request
 - Suitable for T-SB1 TORK valve coil (big body)

- (C94)
- Solenoid Valve Controller
 - Selectable Timing Range
 - 24 - 240 VAC 50/60Hz 24 - 240 VDC
 - DIN 43650 ISO-4400/6952
 - IP65 NEMA IV
 - Test Facility
 - Output Registration Form B
 - Special Timing Ranges Available on Request
 - Suitable for T-SB2 TORK valve coils (small body)

DESCRIPTION

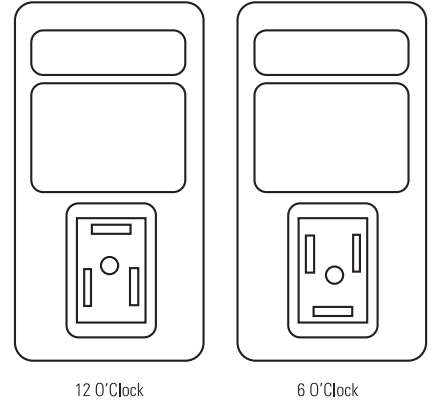
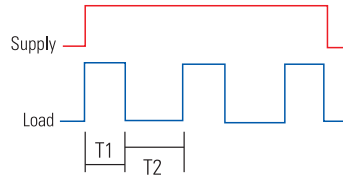
Upon application of power the timer resets, enters the ON state for a period T1, then switches OFF for a period T2. This cycle repeats until power is removed.

APPLICATIONS

- Sampling : Gas or Liquids
- Air Dryers : Condensate Discharge
- Effluent Sampling
- Sprinkler Systems
- Auto Drain Valve : Automatic Discharge of Condensate
- Pneumatic Vibration Systems : (e.g. Powder Silos)
- Automatic Lubrication Systems
- Automatic Control of Hand Wash Basins

TECHNICAL SPECIFICATIONS

- Interval time : 0.5 to 45 minutes, adjustable
 Discharge time : 0.5 to 10 seconds, adjustable
 Manual TEST switch : Yes, micro-switch
 Supply voltage : 24 to 240VAC/DC 50/60Hz
 Current consumption : 4 mA maximum
 Operating temperature : -40° Celcius to 60° Celcius
 Environmental protection : IP65
 Housing material : ABS plastic FR grade
 Connection : DIN 43650A
 Indicators : LED's to indicate ON and OFF
 Design standard : VDE 01 10C



Order Type	New Valve Type / Order no	Discharge Time	Interval Time	Voltage	Application
T-Z 720	C93	0.5 ...10 sec. 0.5 ...10 sn.	0.5 sec...45 min. 0.5 sn. ... 45 dak.	24 ... 220 V 7mA	For C10 Tork valve coil

- Operation temperature : 40°C: +60°C
 Indicator : Led On/Off
 Manuel test switch : Yes
 Protection : IP 65 with plug

Order Type	New Valve Type / Order no	Discharge Time	Interval Time	Voltage	Application
T-Z 790	C94	0.5 ...10 sec. 0.5 ...10 sn.	0.5 sec...45 min. 0.5 sn. ... 45 dak.	24 ... 220 V 7mA	For C20 Tork valve small coil

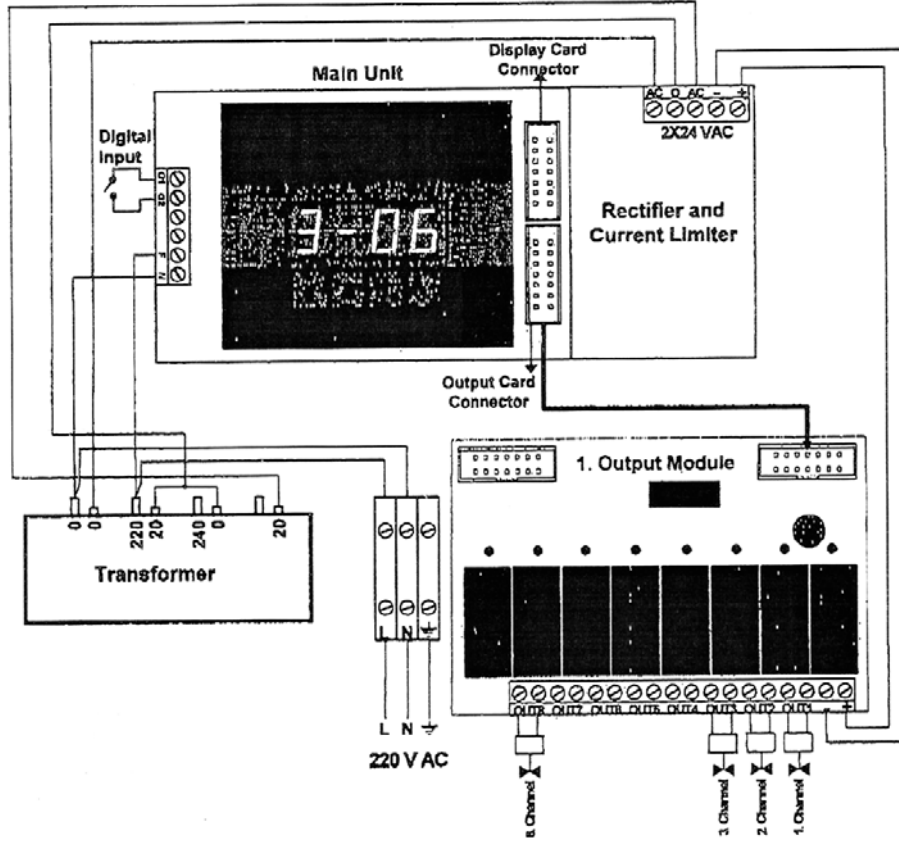
- Operation temperature : -40°C: +60°C
 Indicator : Led On/Off
 Manuel test switch : Yes
 Protection : IP 65 with plug

GENERAL FEATURES

- Filter cleaning Timers are micro-processor based control instruments used in jet pulse filters.
- The filters are used commonly in the industries such as glass, cement, painting, fertilizers and fodder industry
- Ambient dust from spreading.
- Used for cleaning the bag chambers of filters

DESCRIPTION

- C95 Filter Timer is placed into a polyester case. The dimensions of the case are 250 x 300 x 170 mm. The layout of the timer and the connection diagram is given in Figure 1 The devices having 1 to 8 outputs has only one output module.
- The timer unit can be mounted on a wall or in a panel. The mounting pieces must be fixed to the corners of the case before installation. The connection cables passing inside the unit through the cable sheaths on the bottom of the unit are screwed on the terminals.



Valve Type / Order no	New Valve Type / Order no	Output
T-PZR	C95	
T-PZR 8	C95.08	8 relay
T-PZR 16	C95.16	16 relay
T-PZR 24	C95.24	24 relay
T-PZR 32	C95.32	32 relay