

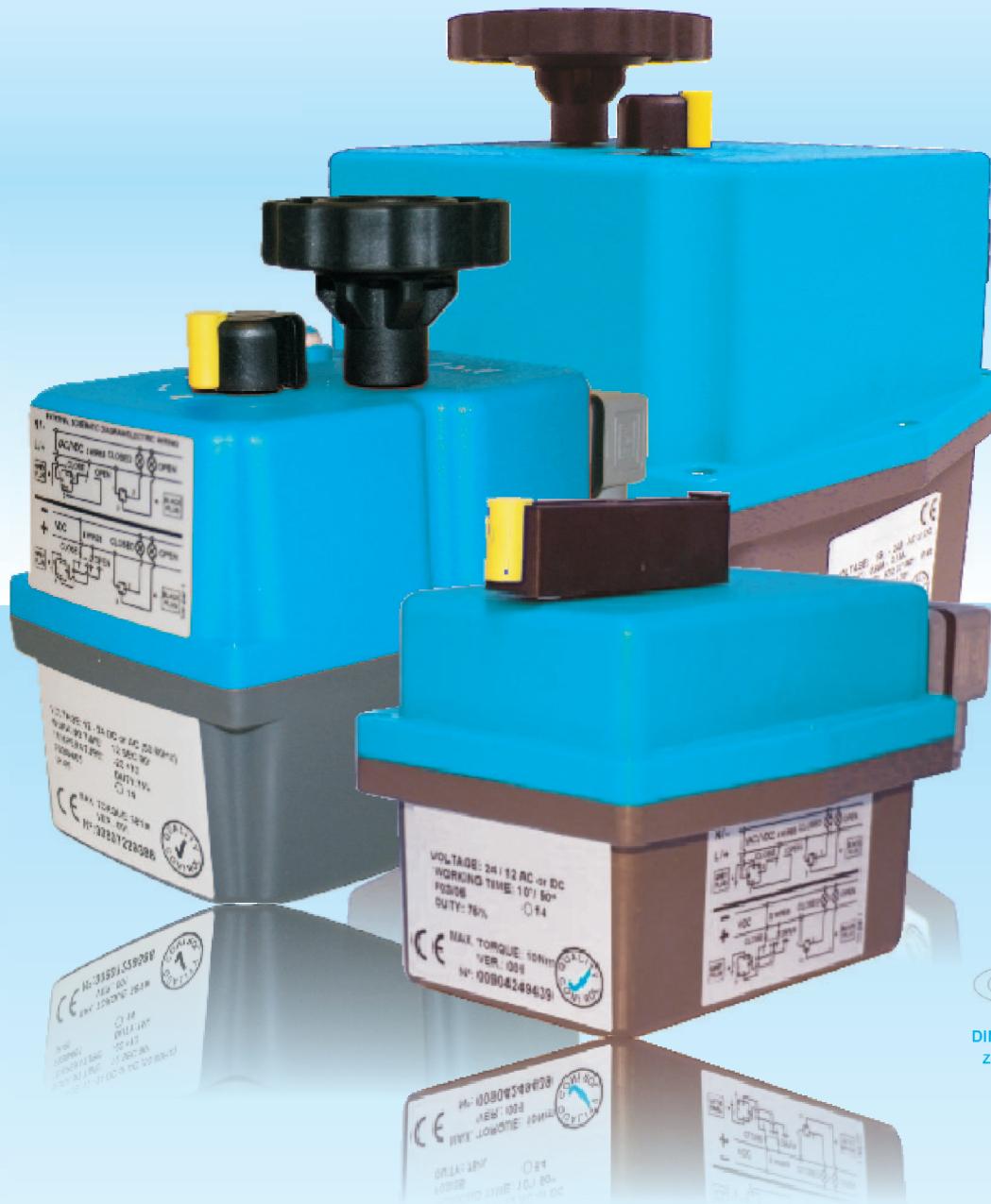
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blu-e-torque

industrial electric actuators
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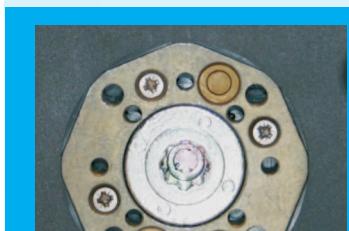
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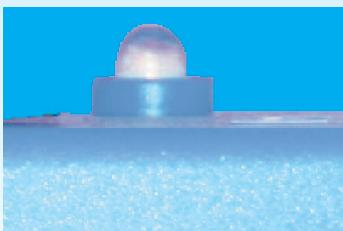


9001:2000

TÜV
CERT
DIN EN ISO 9001:2000
Zertifikat: 01 100 020780



ISO-Interface



Optical function indicator



Emergency manual override and
optical position indication



DIN electric connectors

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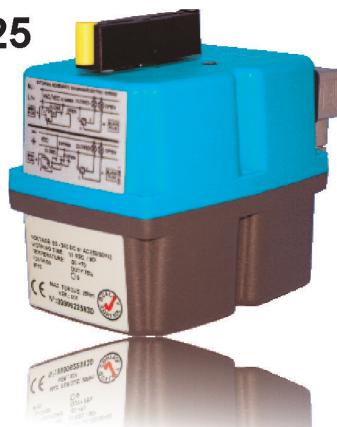
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Electric actuator Model BT25 and BT38

Compact actuator for regulation and control of valves interface according ISO 5211/DIN 3337. (L=Low voltage range, H=High voltage range)

Model BT25



Voltage ranges:

L (-0%/+5%) (lower voltage range)	12–24V AC/DC
H (+/-5%) (upper voltage range)	85–240 V AC/DC

Duty rating [ED]: 75%

Protection class: IP65

Temperature range : -20°C to +70°C

Flange: Multiflange F03/F04/F05

Double square alternatives 9, 11 or 14 mm

Connectors: DIN 43650 ISO 4400 C-192/C-193

Enclosure/housing: Nylon (PA 6)

Operating speed 90°(+/-10%): L: 11 s / H: 11 s

Starting torque: 25 Nm

Working torque: 20 Nm

Weight: 1,4 kg

Model BT38



All advantages at glance:

- ETL (electronic torque limiter)
- AVS (automatic voltage sensing)
- ATC (automatic temperature control) integrated heater to prevent condensation
- mechanical deblocking
- manual override for emergency operation
- two additional potential free contacts for remote position indication

Operating speed 90°(+/-10%): L: 12 s / H: 11 s

Starting torque: 38 Nm

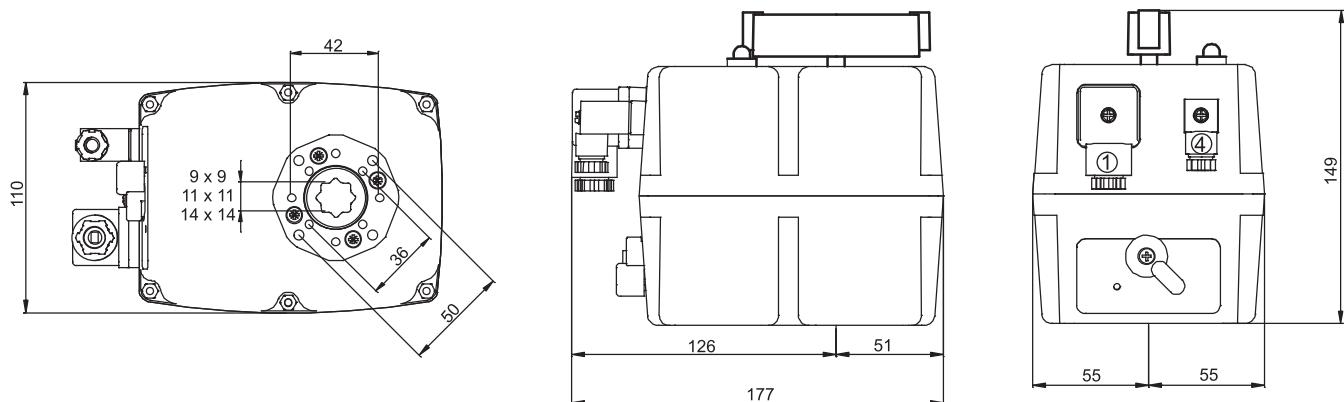
Working torque: 35 Nm

Weight: 1,7 kg

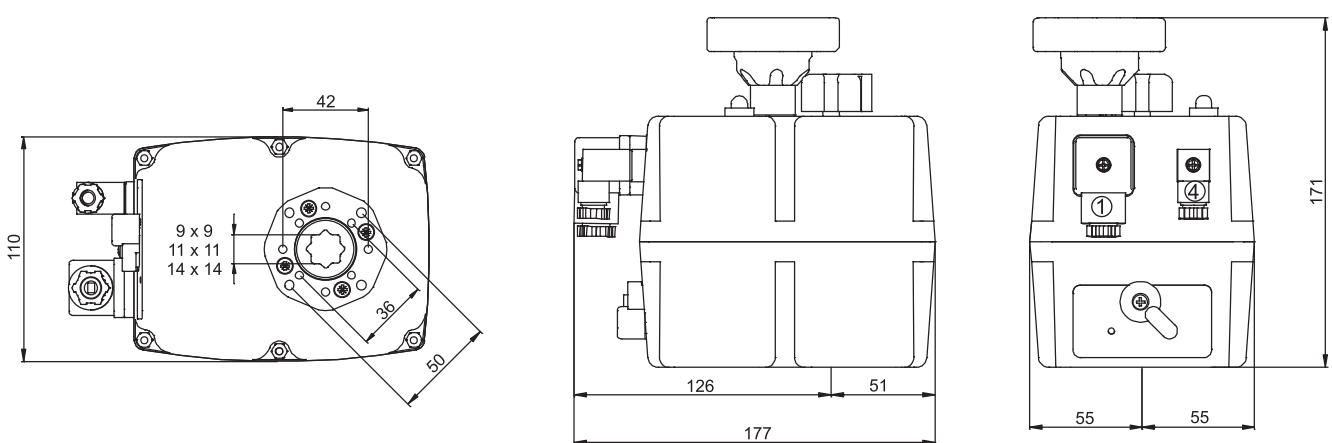
Additonal optional equipment

Different operation angles 0°-180, 0°-90°-180° (other angles possible), potentiometer (alternatively 1K, 5K or 10K), Emergency-Batterypack/BSR, electronic positioning system DPS (either 0-10V or 4-20mA, input-output)

Electric actuator Model BT25



Electric actuator Model BT38





Electric actuator Model BT60 and BT90

Compact actuator for regulation and control of valves interface according ISO 5211/DIN 3337. (L=Low voltage range, H=High voltage range)

Model BT60

Voltage ranges:

L (-0%/+5%) (lower voltage range)	12–24V AC/DC
H (+/-5%) (upper voltage range)	85–240 V AC/DC

Duty rating [ED]: 75%

Protection class: IP65

Temperature range : -20°C to +70°C

Connectors: DIN 43650 ISO 4400 C-192/C-193

Enclosure/housing: Nylon (PA 6)

Weight: 2,3 kg



Operating

Starting

Working

Weight:

4 s

Model BT90

All advantages at glance:

- ETL (electronic torque limiter)
- AVS (automatic voltage sensing)
- ATC (automatic temperature control) integrated heater to prevent condensation
- mechanical deblocking
- manual override for emergency operation
- two additional potential free contacts for remote position indication



Operating

Starting

Working

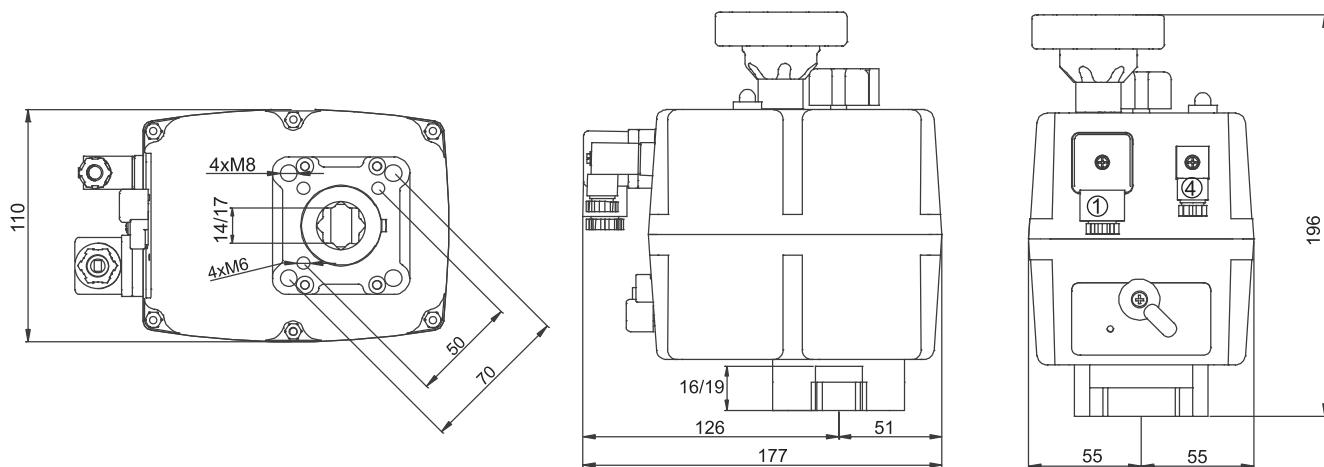
Weight:

35 s

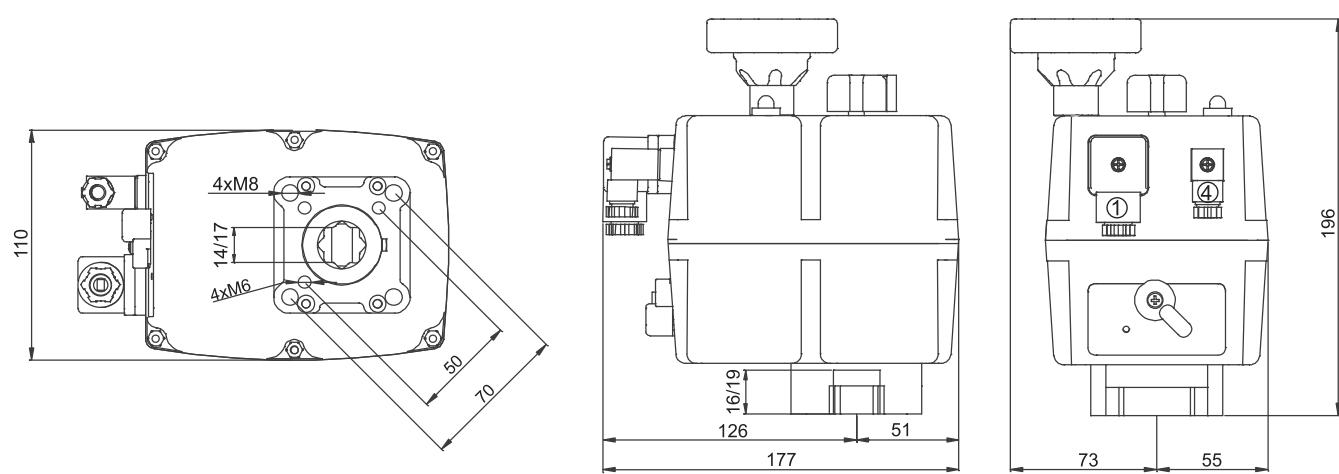
Additonal optional equipment

Different operation angles 0°-180, 0°-90°-180° (other angles possible), potentiometer (alternatively 1K, 5K or 10K), Emergency-Batterypack/BSR, electronic positioning system DPS (either 0-10V or 4-20mA, input-output)

Electric actuator Model BT60



Electric actuator Model BT90



Electric actuators Model BT170 and BT350

Compact actuator for regulation and control of valves interface according ISO 5211/DIN 3337. (L=Low voltage range, H=High voltage range)

Voltage ranges:

L (-0%/-5%) (lower voltage range)	15-24V AC/12-24V DC
H (+/-5%) (upper voltage range)	85-240 V AC/DC

Duty rating [ED]:

75%

Protection class:

IP65

Temperature range :

-20°C to +70°C

Connectors:

DIN 43650 ISO 4400 C-193

Enclosure/housing:

Nylon (PA 6)

Weight:

5,2 kg

Model BT170

Operating speed 90°(+/-10%): L: 31 s / H: 31 s

Starting torque: 170 Nm

Working torque: 140 Nm

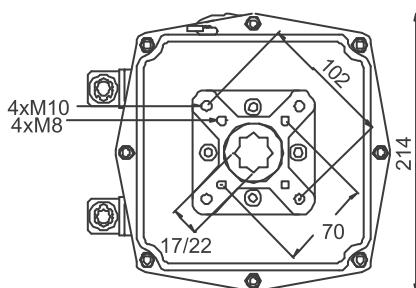
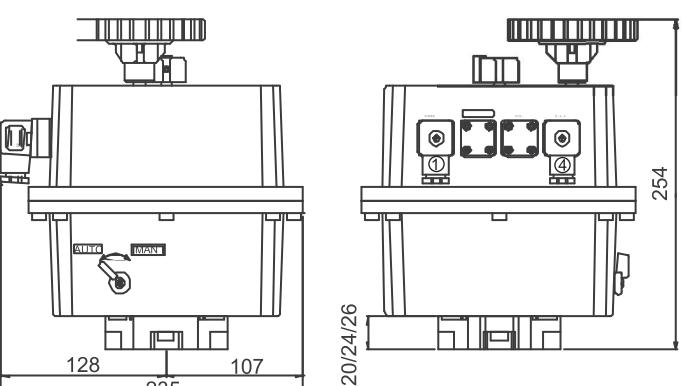


Model BT350

Operating speed 90°(+/-10%): L: 66 s / H: 60 s

Starting torque: 350 Nm

Working torque: 300 Nm



All advantages at glance:

- ETL (electronic torque limiter)
- AVS (automatic voltage sensing)
- ATC (automatic temperature control) integrated heater to prevent condensation
- mechanical deblocking
- manual override for emergency operation
- two additional potential free contacts for remote position indication

Additonal optional equipment

Different operation angles 0°-180, 0°-90°-180° (other angles possible), potentiometer (alternatively 1K, 5K or 10K), Emergency-Batterypack/BSR, electronic positioning system DPS (either 0-10V or 4-20mA, input-output)

Electric actuator Model BT12

Compact actuator for regulation and control of valves interface according ISO 5211/DIN 3337. (L=Low voltage range, H=High voltage range)

Voltage ranges:

L (-0%/+5%) (lower voltage range)	24V AC/DC
H (+/-5%) (upper voltage range)	110/240 V AC/DC



Operating speed:

L: 17 s / H: 17 s

Starting torque:

12 Nm

Working torque:

10 Nm

Duty rating [ED]:

75%

Protection class:

IP65

Temperature range :

-20°C to +70°C

Flange:

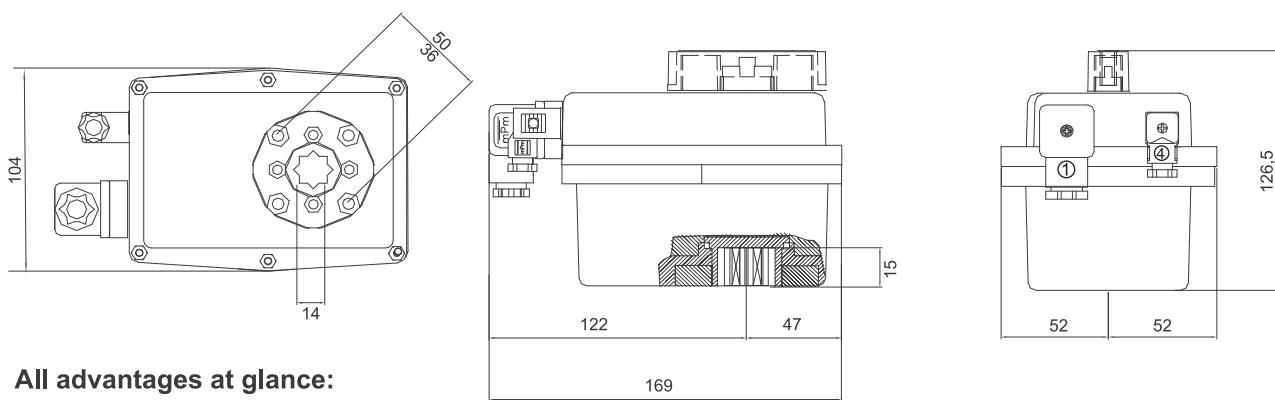
Multiflange F03 and F05

Double square alternatives 14 mm

DIN 43650 ISO 4400 C-192

Enclosure/housing: Nylon (PA 6)

0,75 kg



All advantages at glance:

- ETL (electronic torque limiter)
- AVS (automatic voltage sensing)
- ATC (automatic temperature control) integrated heater to prevent condensation
- mechanical deblocking
- manual override for emergency operation
- two additional potential free contacts for remote position indication

Additonal optional equipment

Different operation angles 0°-180, 0°-90°-180° (other angles possible), potentiometer (alternatively 1K, 5K or 10K), Emergency-Battery pack/BSR, electronic positioning system DPS (either 0-10V or 4-20mA, input-output)



Additional equipments

Models with Emergency Battery Pack (BSR)

The special features of the BT Series:

The Battery Pack for emergency operation is integrated in the housing.

In order to guarantee the proper function of the installed actuators in case of loss of the energy supply the actuators of the BT Series can be equipped with the emergency battery pack (BSR).

This device enables the customer to operate into the desired position without external power supply.

Beeing an emergency operation device it is not design as continuous power supply for standard operation.

All advantages at a glance:

- Automatic re-positioning at power-blackout
- free selection of the security position: NC / NO
- short charging time enables immediate response
- long endurance and lifespan due to modern accumulator technology



BT
With internal integrated
Emergency Battery Pack

Charging current: 800 mA

Weight of Emergency Battery Pack (BSR): Standard-actuator + 0,1 Kg of BSR.

Charging time after an emergency operation Model BT25 and BT38: 26 min.

Charging time after an emergency operation Model BT60 and BT90: 65 min.

Models with Potentiometer

The potentiometer in the actuator indicates the position of it as linear value of the resistance which is being evaluated by an internal device controlling the operation accordingly.

The following three executions of potentiometers are available: 1KOhm, 5KOhm or 10KOhm. If other values are required please contact your nearest blu-e-torque distributor.

Because of the fact that later changes are not possible any more, the exact value of the potentiometer has to be given at the time of order.

Models with Positioner DPS 2005

Alternatively 0-10V or 4-20mA (input and output signal)

The DPS2005 electronic positioner converts the actuators into servo-controlled control device for valves.

Through the input signal of the DPS 2005 it is possible to position the actuator at any angle of displacement.

The output-signal is completely proportional to the actual position of the valve.

The DPS 2005 Module controls through an integrated internal micro-processor (CPU) the analog input-and output signal (4-20mA or 0-10V) and compares it with the position of the actuator.

The sensitivity and repetitiveness are guaranteed by means of a continuous comparison of the analog input signals executed by the CPU.

Class B+C according E DIN EN 15714 Inching+Modulation

Accessories



Octagon insert 9mm for BT25/38



Octagon insert 14mm for BT25/38



Octagon insert 11mm for BT25/38



Octagon insert 14mm for BT60/90



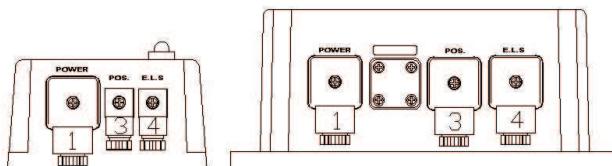
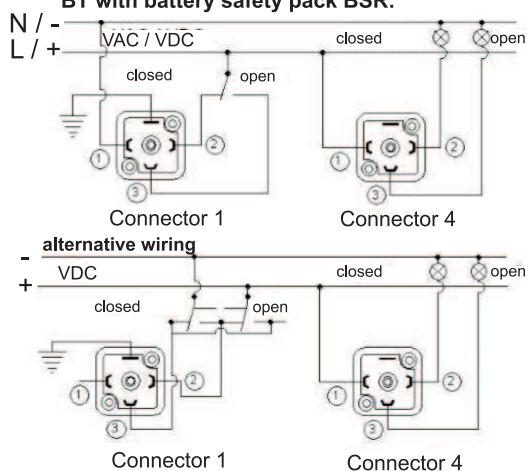
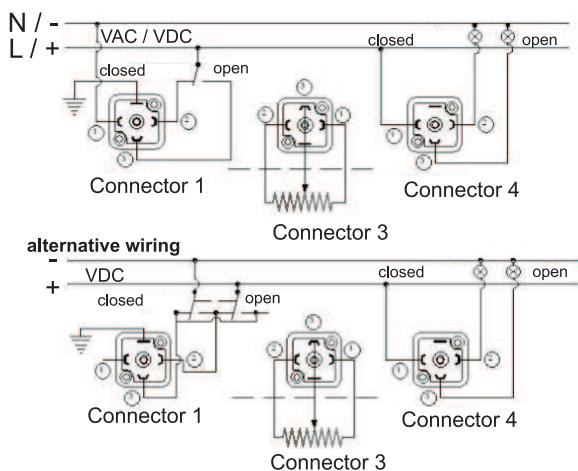
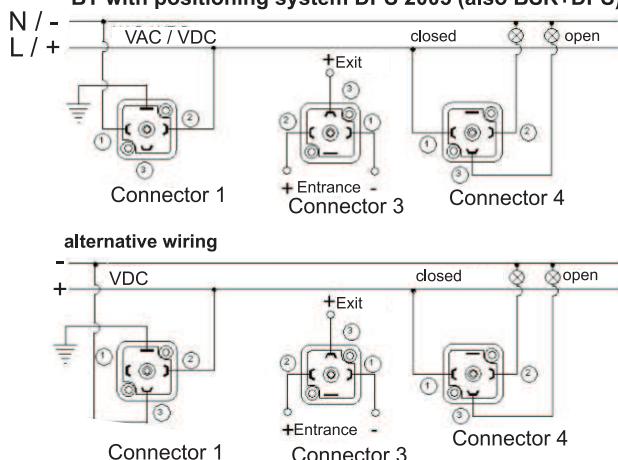
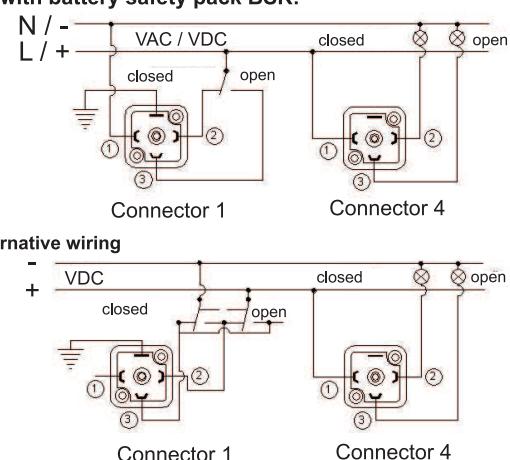
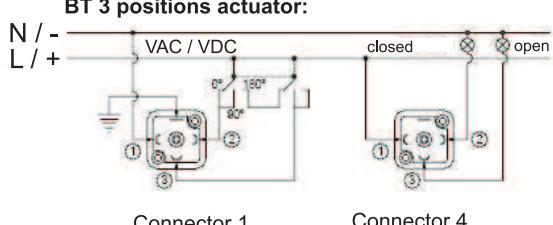
Octagon insert 17mm for BT60/90



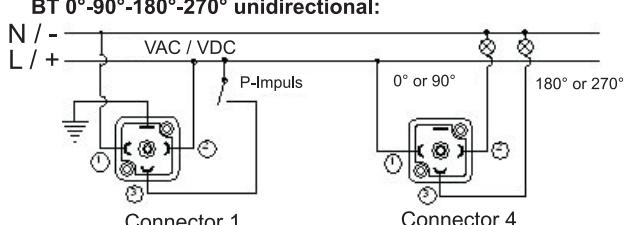
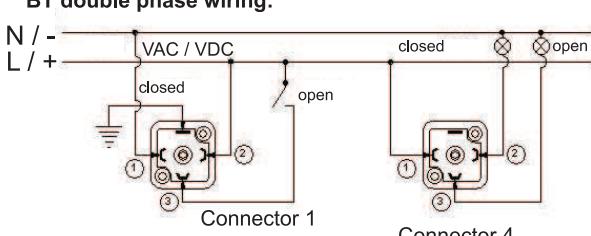
Manual hand lever Model BT25 with 3-ways visual indicator

blu-e-torque

bio-e-torques

Position of connector:**BT Standard +
BT with battery safety pack BSR:****BT with Potentiometer:****BT with positioning system DPS 2005 (also BSR+DPS)****BT with battery safety pack BSR:****BT 3 positions actuator:**

wiring connector 1:
 PIN1 = (N/-) + PIN2 = (L/+) = 0°
 PIN1 = (N/-) + PIN3 = (L/+) = 180°
 PIN1 = (N/-) + PIN2+3 = (L/+) = 90°

BT 0°-90°-180°-270° unidirectional:**BT double phase wiring:**

Modell	BT12	BT25	BT38	BT60	BT90	BT170	BT350
Voltage range L [-0%/+5%]	24V AC/DC	12–24V AC/DC	12–24V AC/DC	12–24V AC/DC	12–24V AC/DC	15–48V AC 12–48V DC	15–48V AC 12–48V DC
Voltage range H [+/-5%]	110–240V AC/DC	85–240V AC/DC	85–240V AC/DC	85–240V AC/DC	85–240V AC/DC	85–240V AC/DC	85–240V AC/DC
Operating speed (s/90°) [+/-10%]	L: 17 s / H: 17 s	L: 11 s / H: 11 s	L: 12 s / H: 11 s	L: 17 s / H: 14 s	L: 33 s / H: 35 s	L: 31 s / H: 31 s	L: 66 s / H: 60 s
Starting torque	12 Nm	25 Nm	38 Nm	60 Nm	90 Nm	170 Nm	350 Nm
Working torque	10 Nm	20 Nm	35 Nm	55 Nm	85 Nm	140 Nm	300 Nm
Duty cycle [ED]	75%	75%	75%	75%	75%	75%	75%
Enclosure	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Temperature	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C
Flange ISO5211	F03/F05	F03/F04/F05	F03/F04/F05	F05/F07	F05/F07	F07/F10	F07/F10
Octagon Other geometrics on request	14 mm	9 mm, 11 mm oder 14 mm	9 mm, 11 mm oder 14 mm	14 mm oder 17 mm	14 mm oder 17 mm	17, 22 mm oder 27 mm	17, 22 mm oder 27 mm
Connection	DIN 43650 ISO 4400 C-192/C-193	DIN 43650 ISO 4400 C-192/C-193	DIN 43650 ISO 4400 C-192/C-193	DIN 43650 ISO 4400 C-192/C-193	DIN 43650 ISO 4400 C-192/C-193	DIN 43650 ISO 4400 C-193	DIN 43650 ISO 4400 C-193
Electronic torque limiting	X	X	X	X	X	X	X
Heater	X	X	X	X	X	X	X
Housing	Nylon (PA 6)						
Weight	0,75 kg	1,4 kg	1,7 kg	2,3 kg	2,8 kg	5,2 kg	5,2 kg
Optionals	0°–180°, 0°–90°–180°, Potentiometer (to choose between 1K, 5K or 10K), battery safety pack/BSR, Positioning system/DPS (to choose between 0-10V or 4-20mA) input and output signal						

Subject to change without notice.

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