Tender specification:

Oventrop electromotive actuator for steady control. The actuator can be used for two point, three point or proportional control (0-10 V) with squeeze connection.

Model:	**Item no.**
24 V, steady control (0-10 V) or switching as two or three point control, type of characteristic line is adjustable, adapter for Oventrop valves is enclosed	115 80 10
Same actuator as item no. 115 80 10 but without enclosed adapter	115 80 11

Performance data:

Item no.:	115 80 10/11
Operating current:	24 V ~/=
Power consumption:	2.5 - 5 W
Drive:	0 - 10 V
Max. piston stroke:	10 mm
Operating power:	500 N
Floating time:	7.5 / 15 s / mm
Protection:	IP 54 according to EN 60529
Max. fluid temperature:	max. 120 °C
Ambient temperature:	-10 up to +55 °C
Storage temperature:	-10 up to +55 °C
Connecting cable:	5 x 0.5 mm²

Installation:

The connecting cable must not come into contact with the hot pipe as excessive heat will accelerate the ageing of the cable insulation.

Electrical connection must be carried out in accordance with the requirements of the local Electricity Regulations.

The Oventrop electromotive actuators can be installed in any position, except for vertical downward position.

Depending on the wiring (see connection diagrams), the actuators can be used as three point, two point or 0-10 V actuator.

Application:

The actuators can be combined with the following valves:

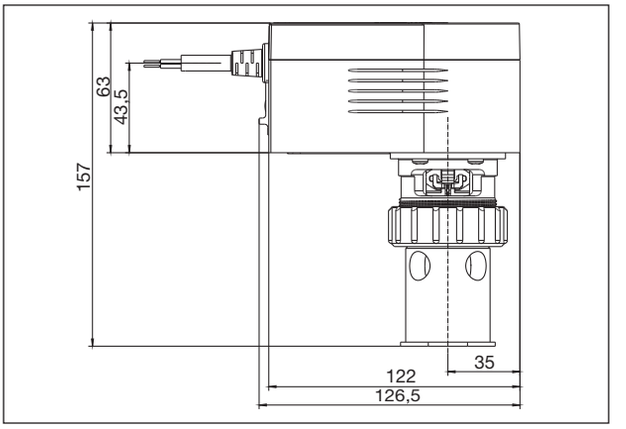
Item no. 115 80 10 → “Cocon QTR/OFC” DN 40 and DN 50
Item no. 115 80 11 → Two-way valve 113 08.... DN 15 up to DN 50

Function:

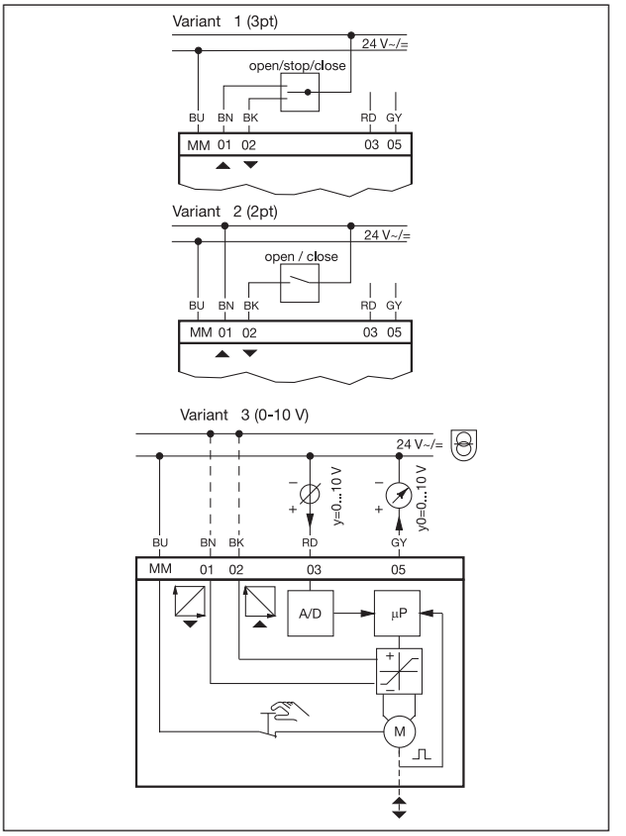
- synchronous motor with activation and switch off technology
- electronic recognition of the limit of travel via timer
- maintenance-free gear with magnetic coupling
- gear release for manual positioning of the valve. To do so, activate the lateral sliding switch and set the actuator to the required position with the help of the enclosed key.



Actuator and adapter



Dimensions with mounted adapter



Connection diagrams item no. 115 80 10/11

Tender specification:

Oventrop electromotive actuator for steady control. The actuator can be used for two point, three point or proportional control, with squeeze connection and position feedback signal.

115 80 20: 0..10 V=

115 80 21/22: 0..10 V= or 4..20 mA

Adapter for Oventrop valves are enclosed.

Model:	**Item no.**
24 V, steady control (0-10 V) or switching as two or three point control, linear characteristic line	115 80 20
24 V, steady control (0-10 V or 4-20 mA) or switching as two or three point control, with pull back spring, linear characteristic line, emergency control function, valves opening with current “off”	115 80 21
24 V, steady control (0-10 V or 4-20 mA) or switching as two or three point control, with pull back spring, linear characteristic line, reversed mode of operation compared to 115 80 21, emergency control function, valves closing with current “off”	115 80 22

Performance data:

Item no.:	115 80 20
Operating current:	24 V ~/= ; 50/60 Hz
Power consumption:	4.8 W
Drive:	0 – 10 V
Max. piston stroke:	20 mm
Operating power:	800 N
Floating time:	9 s / mm
Protection:	IP 54 according to EN 60529
Max. fluid temperature:	120 °C
Ambient temperature:	0 °C up to 50 °C
Storage temperature:	0 °C up to 50 °C
Actuator:	reversible synchronous motor

Item no.:	115 80 21 / 22
Operating current:	24 V ~/= ; 50/60 Hz
Power consumption:	26 W
Drive:	0-10 V or 4-20 mA
Max. piston stroke:	20 mm
Operating power:	1000 N
Floating time:	2 s / mm
Emergency setting time:	1 s / mm
Protection:	IP 54 according to EN 60529
Max. fluid temperature:	120 °C
Ambient temperature:	0 °C up to 50 °C
Storage temperature:	0 °C up to 50 °C
Actuator:	brushless direct current motor

Installation:

The connecting cable must not come into contact with the hot pipe as excessive heat will accelerate the ageing of the cable insulation.

Electrical connection must be carried out in accordance with the requirements of the local Electricity Regulations.

The Oventrop electromotive actuators can be installed in any position, except for vertical downward position.

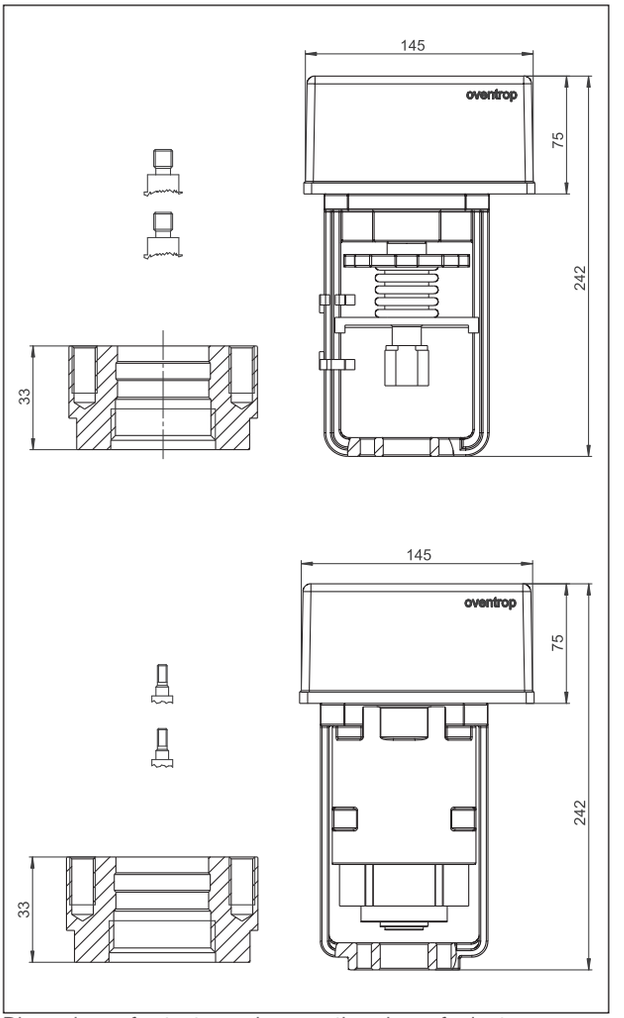
Depending on the wiring (see connection diagrams), the actuators can be used as three point, two point or 0-10 V actuator.



Item no. 115 80 20 and adapter



Item no. 115 80 21/22 and adapter



Dimensions of actuator and connection sizes of adapter

2014 Oventrop

Application:
The actuators can be combined with the following Oventrop valves:

“Cocon QTR” DN 40 and DN 50

“Cocon QFC” DN 40 up to DN 100

Function:

– electronic switching operation depending on the motive force
– compensation of external interferences by dynamic hysteresis
– linear characteristic line
– valve blocking function, short stroke lift if the actuator has not moved within 24 hours (optionally adjustable)
– automatic piston stroke adaptation by initialization
– manual setting of item numbers 115 80 21/22 by removing the cover and by setting the actuator to the required position with the help of a 4 mm Allen key
– maintenance-free

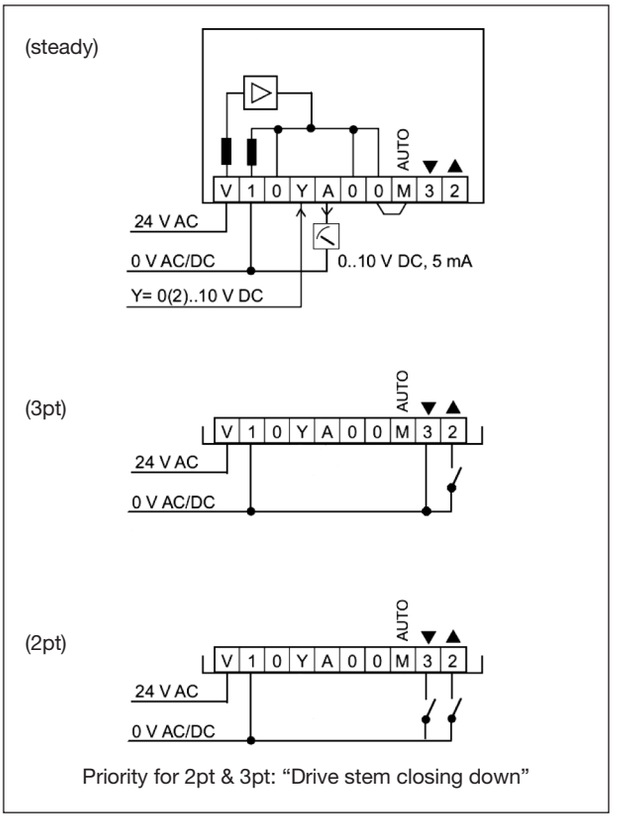
LED display:

115 80 20

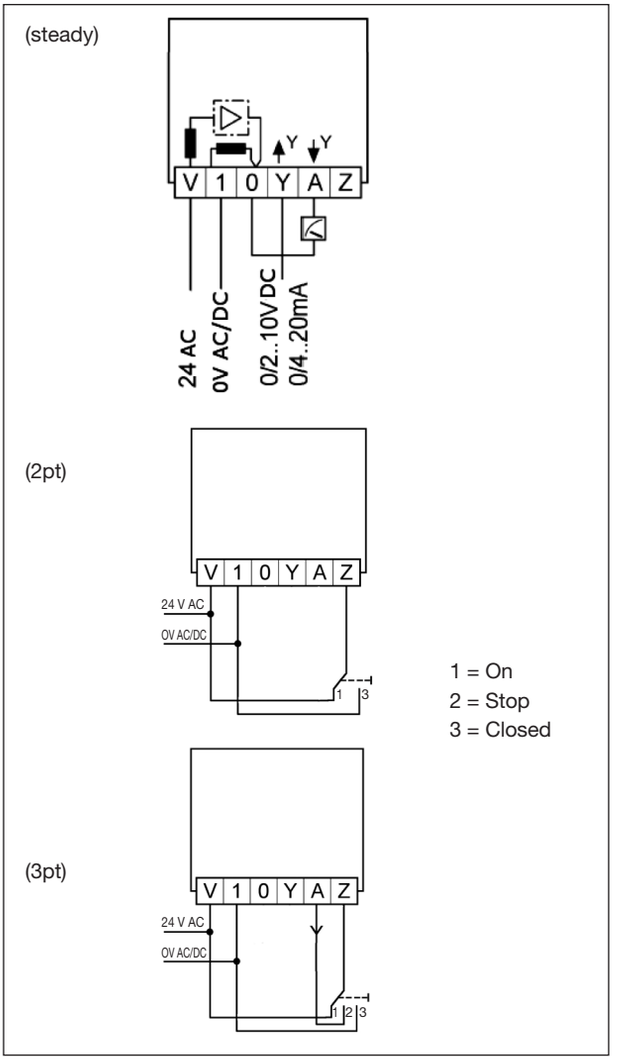
Permanent light:	Normal operation
Slow flashing:	Initialization run or partial initialization after power failure
Irregular fast flashing:	Valve is blocked or manual setting
Off:	Power supply interrupted or actuator fuse defective

115 80 21 / 22

Permanent light:	Normal operation
Short flashing:	Malfunction / reverse polarity
Long flashing:	Initialization run



Connections diagram item no. 115 80 20



Connection diagrams item no. 115 80 21/22

Tender specification:

Oventrop electromotive actuator for steady control. The actuator can be used for two point, three point or proportional control (0-10 V or 4-20 mA), with squeeze connection.

Adapter for Oventrop valves are enclosed.

Model:	**Item no.**
24 V, steady control (0-10 V or 4-20 mA) or switching as two or three point control, type of characteristic line is adjustable	115 80 30
24 V, steady control (0-10 V or 4-20 mA) or switching as two to three point control, with pull back spring, type of characteristic line is adjustable, valves opening with current “off”	115 80 31
24 V, steady control (0-10 V or 4-20 mA) or switching as two to three point control, with pull back spring, type of characteristic line is adjustable, reversed mode of operation compared to 115 80 31, valves closing with current “off”	115 80 32

Performance data:

Item no.:	115 80 30
Operating current:	24 V ~/=
Power consumption:	10 W
Drive:	0–10 V or 4–20 mA
Max. piston stroke:	40 mm
Operating power:	2500 N
Floating time:	2 / 4 / 6 s / mm
Protection:	IP 66 according to EN 60529
Max. fluid temperature:	120 °C
Ambient temperature:	-10 °C up to +55 °C
Storage temperature:	-10 °C up to +55 °C

Item no.:	115 80 31/32
Operating current:	24 V ~/=
Power consumption:	7.5 W
Drive:	0-10 V oder 4-20 mA
Max. piston stroke:	40 mm
Operating power:	2000 N
Floating time:	2 / 4 / 6 s / mm
Protection:	IP 66 according to EN 60529
Max. fluid temperature:	max. 120 °C
Ambient temperature:	-10 °C up to +55 °C
Storage temperature:	-10 °C up to +55 °C
Number of spring returns:	> 4000

Installation:

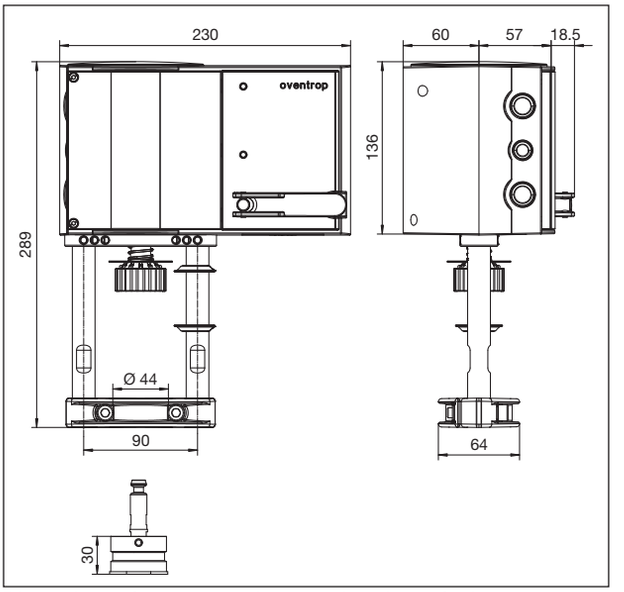
The connecting cable must not come into contact with the hot pipe as excessive heat will accelerate the ageing of the cable insulation.

Electrical connection must be carried out in accordance with the requirements of the local Electricity Regulations.
The Oventrop electromotive actuators can be installed in any position, except for vertical downward position.

Depending on the wiring (see connection diagrams), the actuators can be used as three point, two point or 0-10 V actuator.



Actuator and adapter



Dimensions of actuator and connection sizes of adapter

2014 Oventrop

Application:

The actuators can be combined with the following Oventrop valves:

“Cocon QFC” DN 125 up to DN 200

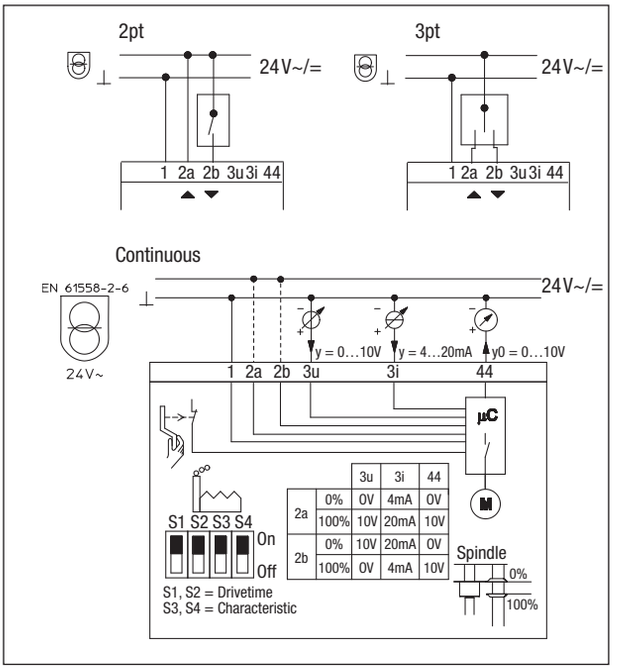
Two-way valves 113 08 .. DN 65 up to 150

Function:

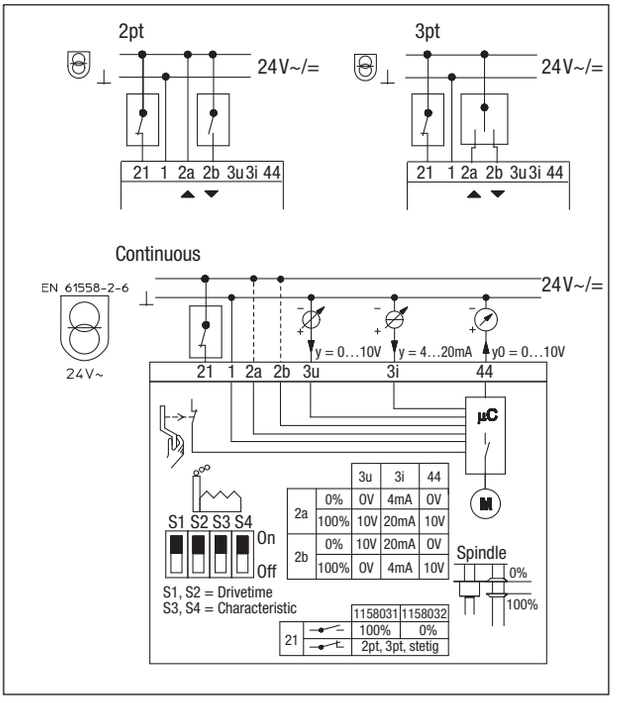
- electronic switching operation depending on the motive force
- automatic recognition of the input control signal
- setting of the characteristic line at the actuator (linear, square-law, equal percentage)
- automatic adaptation
- free choice of mode of operation
- choice of the characteristic line via coding switch
- setting of floating time
- the actuator can be set manually with the crank handle
- reinitialization is triggered with the crank handle

LED display:

Both LEDs flash red:	Initialization
One LED flashes green:	A piston stroke is carried out by the actuator, direction according to LED
One LED glows green:	Idle position, last direction of travel according to LED
One LED glows red:	Final position, valve position according to LED
Off:	No power supply or no activation in three point mode



Connection diagrams item no. 115 80 30



Connection diagrams item no. 115 80 31/32

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