VT PLUS

Electric actuators

Technical data sheet

400Nm 2400Nm

Facteur de marche 50% Duty cycle

Indice d'étanchéité IP68 Ingress Protection

Anticondensation

Battery Backup BBPR Position Recovery

0-20 mA POSI 0-10 V

3 POSITIONS

CE Bluetooth™ Modbus Powered by AXMART®

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A WATTS Brand

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Description

90° electric actuator with aluminium casing and epoxy coating or high-durability Norsok M-501 marine coating, system 6A, 15-year warranty. Manual override control via handwheel, for torques from 400 to 2400 Nm and compliant with EC-ROHS-REACH Directives.

Epoxy coating

Marine coating

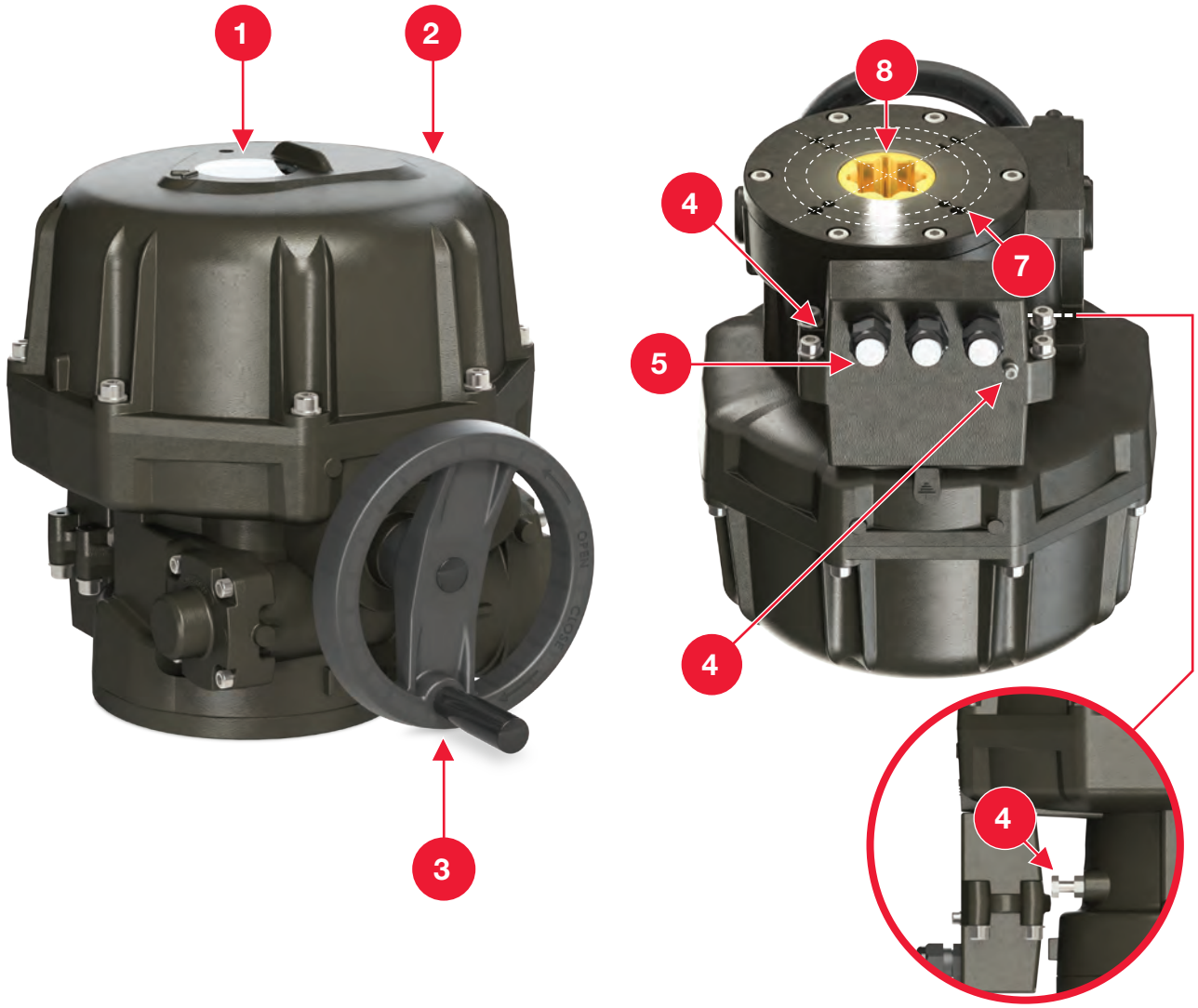
Technical data

Maximum torque	VT400: 400 Nm	VT600: 600 Nm	VT1000: 1000 Nm	VT1500: 1500 Nm	VT2400: 2400 Nm
Materials	Envelope: Aluminium + epoxy coating (marine coating optional) Shaft: steel + Zn treatment Axles and screws: stainless steel				
Watertight	IP68 5 metres / 72 hours (10 metres / 72 hours optional)				
Installation and use	Indoor and outdoor (wet locations accepted), maximum altitude of 2,000 metres				
Ambient temperatures (use and storage)	Models without battery: -20°C to +70°C Models with battery: -10°C to +40°C				
Sound level	63 dB				
Mass	25 kg (VT400-600-1000) | 57 kg (VT1500-2400)				
Working time	VT400: 35 seconds	VT600: 45 seconds	VT1000: 72 seconds	VT1500: 182 seconds	VT2400: 291 seconds
Duty cycle	Service S4 - 50% (IEC34)				
Number of starts per hour [1]	150				
Number of operations (90°) / hour [1]	VT400: 51	VT600: 40	VT1000: 25	VT1500: 10	VT2400: 6
Angular range	90° as standard (other operating angles on request)				
Manual control	Handwheel driving without decluching system (does not rotate during operation)				
Drive	36 mm star (VT400-600-1000) | 46 mm star (VT1500-2400)				
ISO 5211 mounting [1]	F10/F12 (VT400-600-1000) | F12/F14/F16 (VT1500-2400)				
Electrical connection	24-pin connector and 3 ISO M20 cable gland				
Torque limiter	Electronic				
Serial connection	RS485				
Engine technology	Brushless				
Actuator control	- Control via power supply: on-off, 3-point modulation or optional pulse control (500 ms) - Wireless: Bluetooth® control via AXMART® - Field bus: Modbus-RTU® (optional) - Analogue signal: 0-10V or 4-20mA (optional)				
Power supply voltages	Either 24 V to 48 V 50/60 Hz (24 V to 72 V DC) Either 100 V to 240 V 50/60 Hz (100 V to 300 V DC)				
Maximum Intensity	13 A (example: 24 V: 13 A | 110 V: 3 A | 230 V: 1.5 A)				
Power consumption	300 W max.				
Limit switches	2 NO or NC feedback switches (4 switches optional) 12 to 250 V AC and 4 to 24 V DC minimum 100 mA, maximum 5 A (resistive), 0.5 A (motor), 0.125 A (capacitive load)				
Anti-condensation heater	21 W self-regulating (3 x 7 W)				
Warranty [2]	3 years or 50,000 operations				

[1] Refer to the user manual for further details.
[2] Tested under the most unfavourable conditions (maximum torque and duty cycle).

Overview of actuators

VT400-1000 Nm



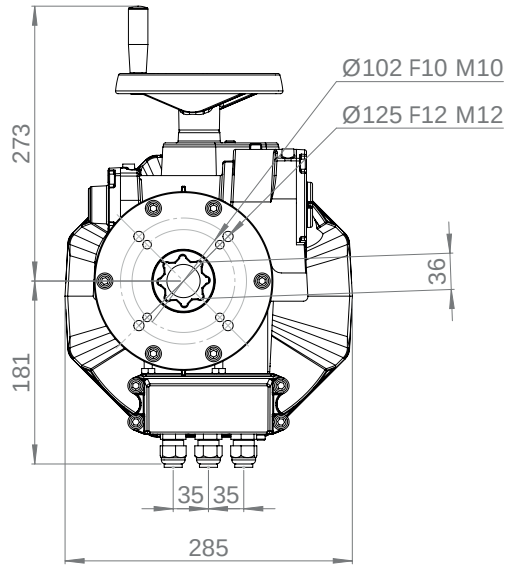
1	Position indicator
2	Aluminium casing + epoxy coating or high-durability marine coating Norsok M-501 system 6A, 15-year warranty (optional).
3	Handwheel for manual operation (does not rotate during actuator operation)
4	Mechanical limit stops
5	24-pin connector with 3 ISO M20 cable gland for wiring the power supply, feedback contacts and Modbus-RTU® fieldbus
6	Housing earth screw
7	F10/F12 ISO5211 connection plate
8	36 mm star drive

VT1500-2400 Nm

1	Position indicator
2	Aluminium casing + epoxy coating or high-durability marine coating Norsok M-501 system 6A, 15-year warranty (optional).
3	Handwheel for manual operation (does not rotate during actuator operation)
4	24-pin connector with 3 ISO M20 cable gland for wiring the power supply, feedback contacts and Modbus-RTU® fieldbus
5	Housing earth screw
6	F12/F14/F16 ISO5211 connection plate
7	46 mm star drive

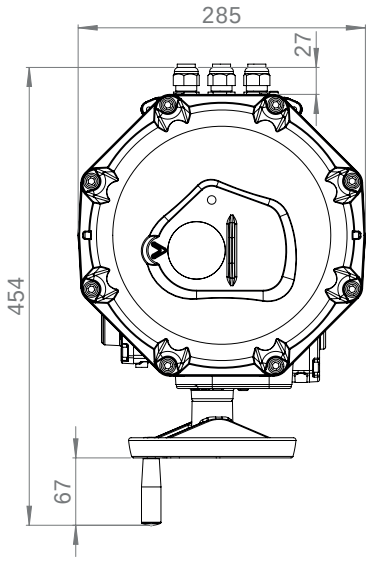
Dimensions

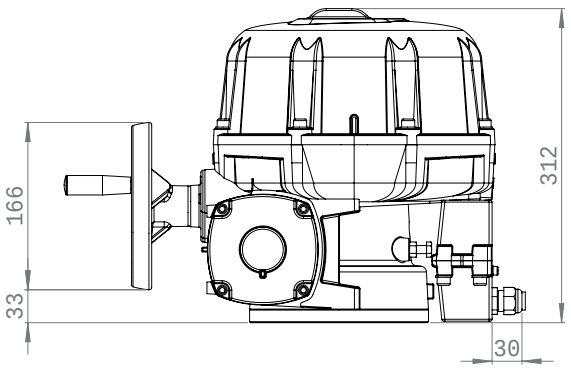
VT400-1000 Nm



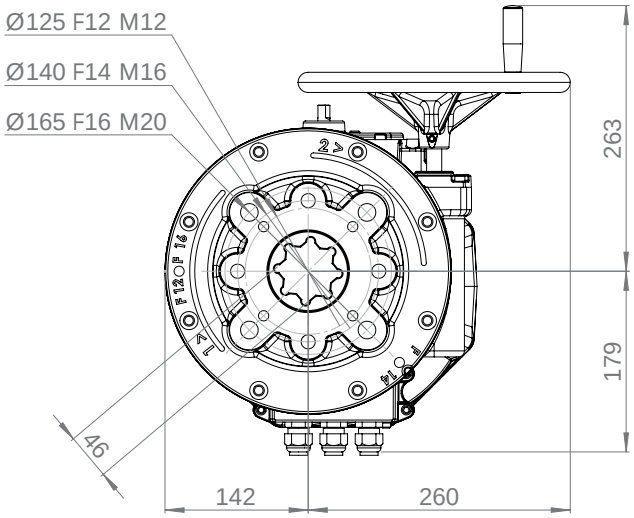
Drive	
Star (mm)	36
Depth (mm)	41

Connection plate	F10	F12
Diameter (mm)	102	125
Tapping (mm)	M10	M12
Depth (mm)	25	30
Number of screws	4	4
Height required above the valve to mount the actuator	455 mm	



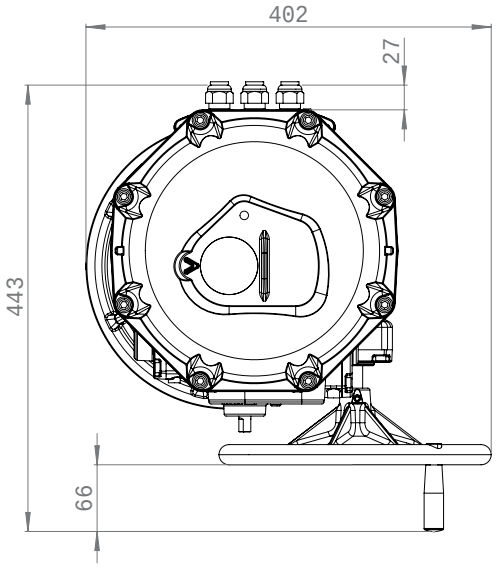


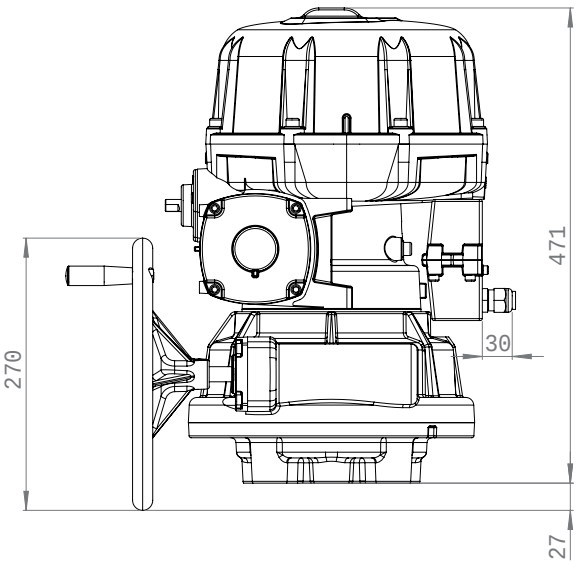
VT1500-2400 Nm



Drive	
Star (mm)	46
Depth (mm)	50

Connection plate	F12	F14	F16
Diameter (mm)	125	140	165
Tapping (mm)	M12	M16	M20
Depth (mm)	20	25	30
Number of screws	4	4	4
Height required above the valve to mount the actuator	614 mm		





Bluetooth® wireless communication via AXMART®

Bluetooth® communication via AXMART® v3, the interface for managing and controlling Valpes actuators.

Benefits

- With a range of 15 metres in open space
- Available free of charge for Android and iOS
- Standard with BBPR emergency systems (see page 10)
- Physical switch to enable or disable the wireless connection

Supervision & Status

AXMART® enables real-time control of all actuator parameters.
With actuators equipped with the Bluetooth® communication module, commissioning of installations is simplified. Installed on a smartphone or tablet, AXMART® allows all actuator tests and operational validations to be carried out in a matter of seconds. AXMART® also simplifies maintenance by providing actuator status. It is a way to save time and convenience while minimising risks.

Local control

The Valpes Bluetooth® communication module enables secure communication with our actuators, whether visible or hidden and difficult to access (floors, manholes, ceilings, high places, etc.). This interface is ideal for local control.

Weekly Schedule

The integrated programmer makes the actuator autonomous, thanks to the ability to record up to 20 tasks per week. This solution is a simple and economical way to automate installations that do not require a PLC, electrical cabinet or operator intervention.

Settings

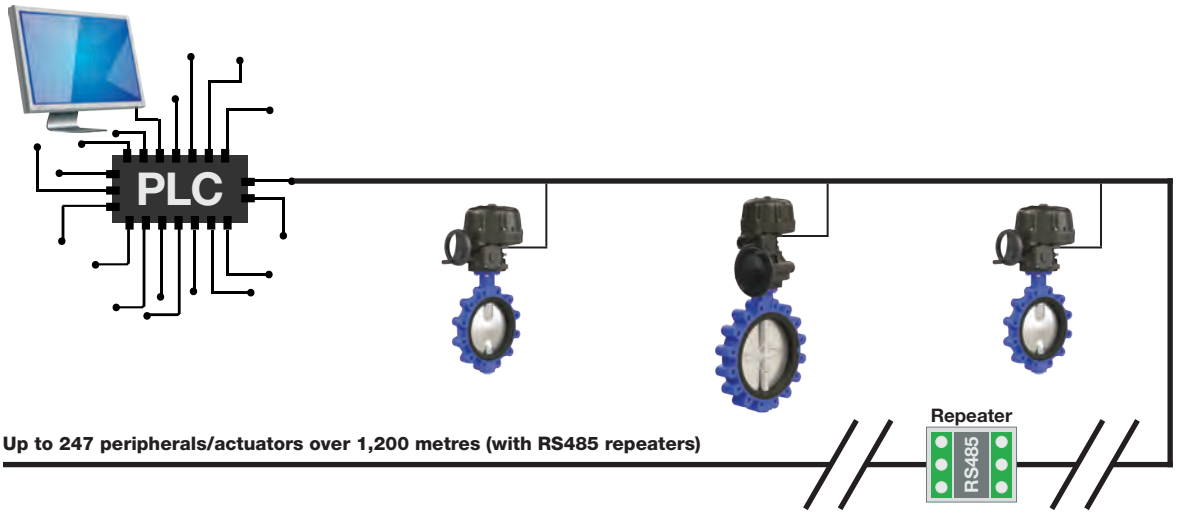
AXMART® allows advanced configuration of actuators. Among other things, it is possible to define the safety position of the BBPR system, the type of analogue signal for the setpoint and feedback of the positioning module, as well as the type of electrical wiring and the operating mode of the actuator.

Modbus-RTU® fieldbus communication

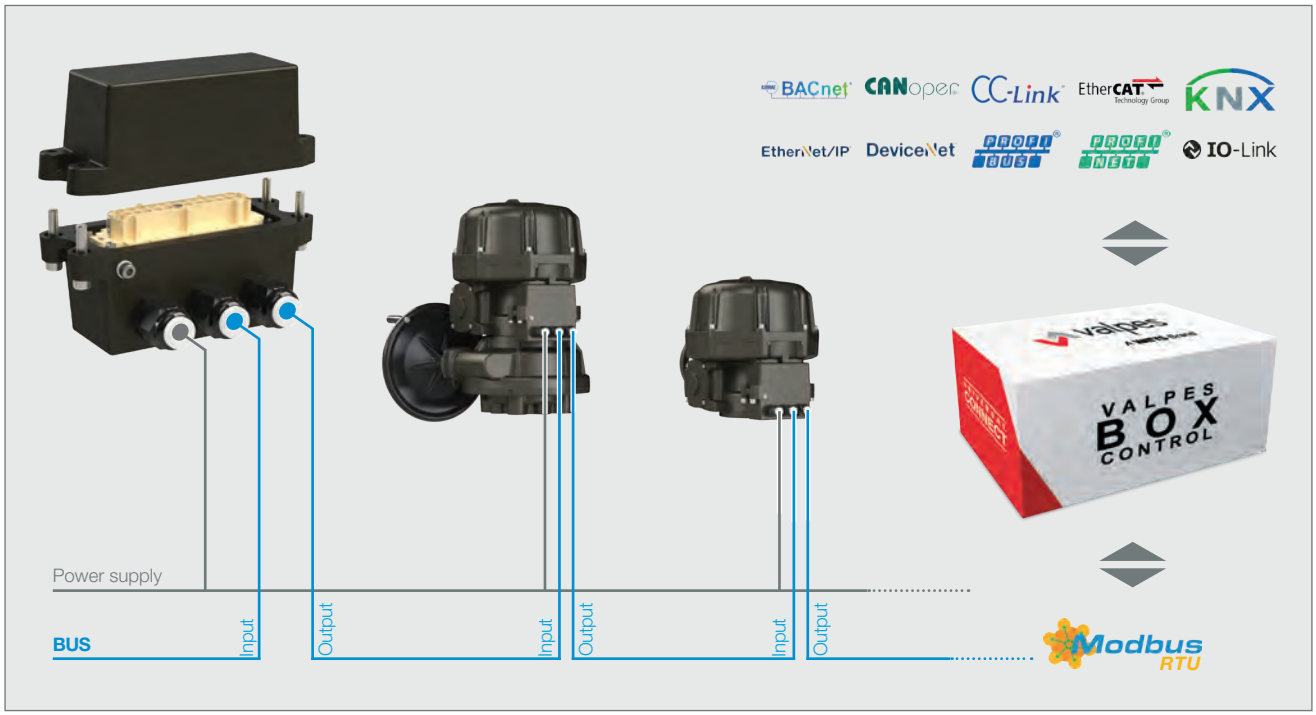
Communication via industrial network protocol through RS485 serial link.

Benefits

- Modbus-RTU® certified by the Modbus Organisation
- Half-duplex serial connection
- Up to 31 actuators over 1,200 metres per line
- Up to 247 actuators with the addition of repeaters
- Can be integrated into most industrial networks through the use of the Valpes Box Control.
- Removable termination resistor included



Our plug & play solutions with pre-wiring and junction box offers compatibility with other protocols via Valpes Box Control



BBPR "GS6" battery backup system

Actuators with backup batteries for return to safety position in the event of a power failure.

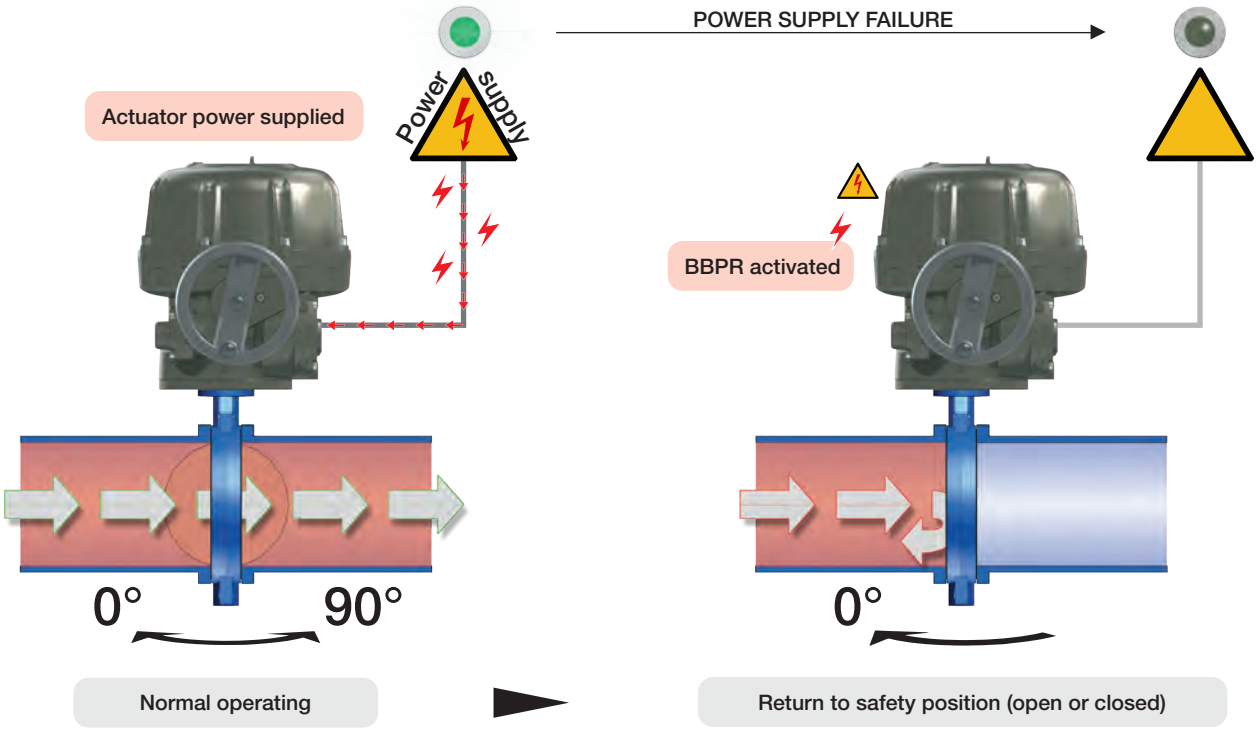
Benefits

- Batteries guaranteed for 18 months from the date of delivery (see general terms and conditions of sale)
- All integrated: no additional wiring
- Bluetooth® communication and AXMART® features
- Selection of safety position (closed, open) via AXMART®
- Battery charge and actuator status in real time.
- Shuts off after 2 minutes to prevent battery drain
- Torque limiter available during emergency operation
- Quick and easy replacement of the battery pack
- Failure report (excessive torque, excessive temperature, non-functional battery)
- Bluetooth® wireless communication via AXMART® as standard (more details at page 8)
- Compatible with optional Modbus-RTU® protocol (more details at page 9)

AXMART® application & via Bluetooth® connection (more details at page 8)

- **Monitoring:** real-time status and parameters of the actuator and battery
- **Selection** of safety position (closed or open)
- **Local control** of the actuator within a radius of 15 metres
- **Weekly programming** of 20 tasks to automate the actuator without a PLC or operator
- **Physical security switch** to enable or disable wireless connection

Operating principle



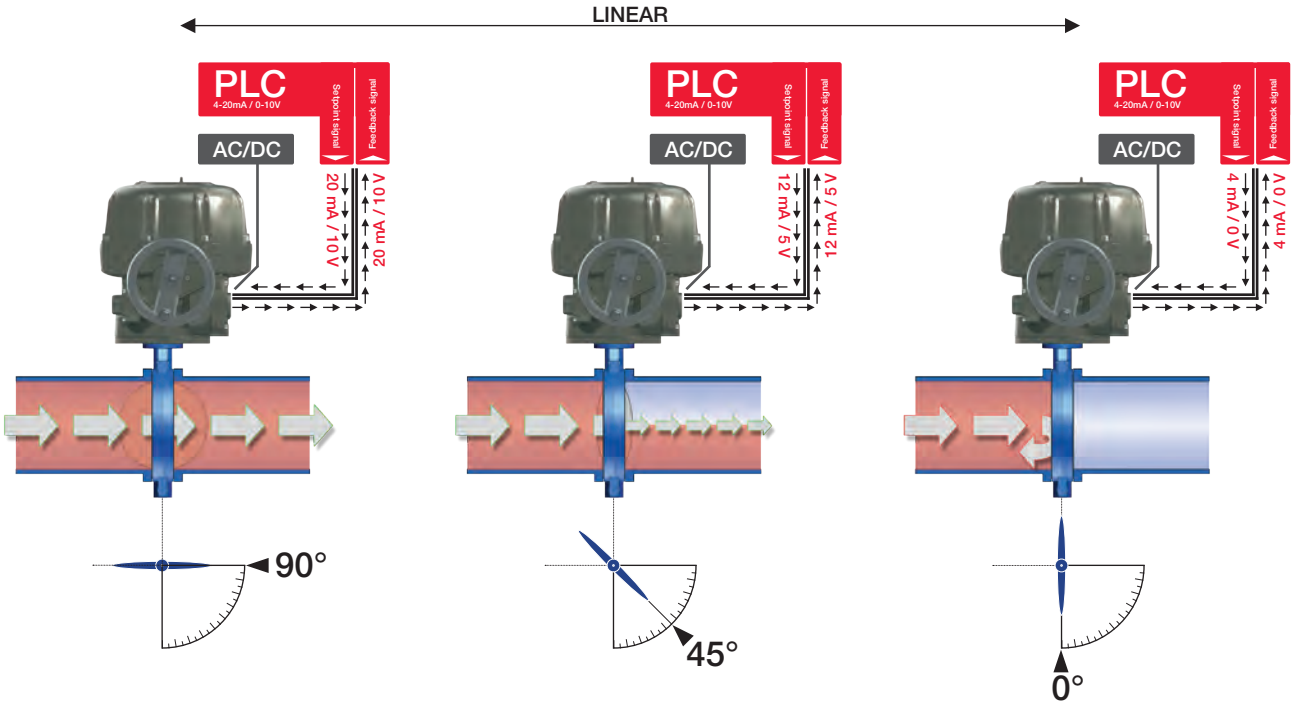
POSI proportional control via analogue signal "GP7"

Actuators with proportional positioning via analogue signal (4-20 mA or 0-10 V)

Benefits

- All integrated: no additional wiring
- 4-20 mA and 0-10 V feedback signal
- Reversible setpoint and feedback signal
- Learning mode to adapt it to the angular range
- Rotation up to 270° on request

Operating principle



Digital proportional control (Modbus-RTU® option)

Benefits

- Modbus-RTU network frame control
- Failure report (excessive torque and temperature)
- Electronic torque limiter
- Fully compatible with the Modbus-RTU® protocol (more details at page 9)
- Wireless Bluetooth® communication via AXMART® as standard (more details at page 8)

AXMART® application & via Bluetooth® connection (more details at page 8)

- **Monitoring:** status and parameters of the actuator and its position in real time
- **Selection** of setpoint and feedback type for analogue signal
- **Local control** of the actuator within a radius of 15 metres
- **Weekly programming** of 20 tasks to automate the actuator without a PLC or operator
- **Physical security switch** to enable or disable wireless connection

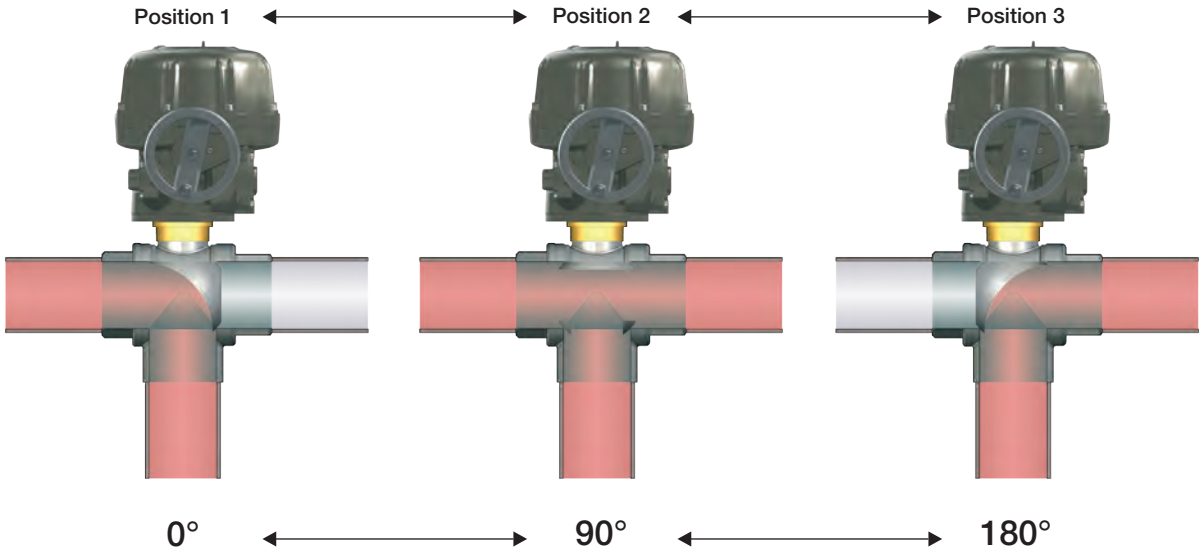
3-position version "GF3"

Actuators with intermediate positions between 0° and 90°, 180° or 270° for the automation of L- or T-shaped 3-way-valves.

Benefits

- All integrated: no additional wiring
- Electronic torque limiter
- Feedback switches for each position
- Default report
- Rotation up to 270°
- Compatible with optional Modbus-RTU® protocol (more details at page 9)
- Bluetooth® wireless communication via optional AXMART® (more details at page 8)

Operating principle



Combined POSI-BBPR "GPS" version

Combination of proportional positioning systems according to an analogue setpoint signal (0-10 V or 4-20 mA) or Modbus-RTU® and return to safety position by battery in the event of a power failure.

Benefits

Same advantages as BBPR (see page 10) and POSI proportional control systems (see page 11).

- All integrated: no additional wiring
- Optionally compatible with the Modbus-RTU® protocol (more details at 9)
- Bluetooth® wireless communication via AXMART® as standard (more details at 8)

AXMART® application & via Bluetooth® connection (more details at 8)

- **Monitoring:** real-time status and parameters of the actuator and battery
- **Selection** of safety position (closed or open)
- **Selection** of the setpoint and feedback signal type when used in analogue signal mode
- **Local control** of the actuator within a radius of 15 metres
- **Weekly programming** of 20 tasks to automate the actuator without a PLC or operator
- **Physical security switch** to enable or disable wireless connection

Combined 3-POSITION-BBPR "GFS" version

Combination of 3-position systems between 0° and 90°, 180° or 270° and return to safety position by battery in the event of a power failure.

Benefits

Same advantages as BBPR (see page 10) and 3-position systems (see page 11)

- All integrated: no additional wiring
- Optionally compatible with the Modbus-RTU® protocol (more details at page 9)
- Bluetooth® wireless communication via AXMART® as standard (more details at page 8)

AXMART® application & via Bluetooth® connection (more details at page 8)

- **Monitoring:** real-time status and parameters of the actuator and battery
- **Selection** of safety position (closed or open)
- **Local control** of the actuator within a radius of 15 metres
- **Weekly programming** of 20 tasks to automate the actuator without a PLC or operator
- **Physical security switch** to enable or disable wireless connection

Reference tables

Electric control “G00”

Code	Star (mm) connection (ISO 5211)	Torque	Voltages	Power	Operating time (90°)
VT400.A0A.G00	36 F10/F12	400 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	35 s
VT400.A0B.G00	36 F10/F12	400 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	35 s
VT600.A0A.G00	36 F10/F12	600 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	45 s
VT600.A0B.G00	36 F10/F12	600 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	45 s
VT1000.A0A.G00	36 F10/F12	1000 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	72 s
VT1000.A0B.G00	36 F10/F12	1000 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	72 s
VT1500.B0A.G00	46 F14	1500 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	182 s
VT1500.B0B.G00	46 F14	1500 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	182 s
VT1500.C0A.G00	46 F12/F16	1500 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	182 s
VT1500.C0B.G00	46 F12/F16	1500 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	182 s
VT2400.B0A.G00	46 F14	2400 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	291 s
VT2400.B0B.G00	46 F14	2400 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	291 s
VT2400.C0A.G00	46 F12/F16	2400 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	291 s
VT2400.C0B.G00	46 F12/F16	2400 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	291 s

Electric control + BBPR system with backup battery “GS6”

Code	Star (mm) connection (ISO 5211)	Torque	Voltages	Power	Operating time (90°)
VT400.A0A.GS6	36 F10/F12	400 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	35 s
VT400.A0B.GS6	36 F10/F12	400 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	35 s
VT600.A0A.GS6	36 F10/F12	600 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	45 s
VT600.A0B.GS6	36 F10/F12	600 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	45 s
VT1000.A0A.GS6	36 F10/F12	1000 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	72 s
VT1000.A0B.GS6	36 F10/F12	1000 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	72 s
VT1500.B0A.GS6	46 F14	1500 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	182 s
VT1500.B0B.GS6	46 F14	1500 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	182 s
VT1500.C0A.GS6	46 F12/F16	1500 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	182 s
VT1500.C0B.GS6	46 F12/F16	1500 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	182 s
VT2400.B0A.GS6	46 F14	2400 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	291 s
VT2400.B0B.GS6	46 F14	2400 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	291 s
VT2400.C0A.GS6	46 F12/F16	2400 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	291 s
VT2400.C0B.GS6	46 F12/F16	2400 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	291 s

When sizing the actuator, a safety factor of 1.5x (2x for POSI models) must be taken into account.

Proportional control via 4-20 mA or 0-10 V signal “GP7”

Code	Star (mm) connection (ISO 5211)	Torque	Voltages	Power	Operating time (90°)
VT400.A0A.GP7	36 F10/F12	400 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	35 s
VT400.A0B.GP7	36 F10/F12	400 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	35 s
VT600.A0A.GP7	36 F10/F12	600 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	45 s
VT600.A0B.GP7	36 F10/F12	600 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	45 s
VT1000.A0A.GP7	36 F10/F12	1000 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	72 s
VT1000.A0B.GP7	36 F10/F12	1000 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	72 s
VT1500.B0A.GP7	46 F14	1500 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	182 s
VT1500.B0B.GP7	46 F14	1500 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	182 s
VT1500.C0A.GP7	46 F12/F16	1500 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	182 s
VT1500.C0B.GP7	46 F12/F16	1500 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	182 s
VT2400.B0A.GP7	46 F14	2400 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	291 s
VT2400.B0B.GP7	46 F14	2400 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	291 s
VT2400.C0A.GP7	46 F12/F16	2400 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	291 s
VT2400.C0B.GP7	46 F12/F16	2400 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	291 s

3-position electric control "GF3"

Code	Star (mm) connection (ISO 5211)	Torque	Voltages	Power	Operating time (90°)
VT400.A0A.GF3	36 F10/F12	400 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	35 s
VT400.A0B.GF3	36 F10/F12	400 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	35 s
VT600.A0A.GF3	36 F10/F12	600 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	45 s
VT600.A0B.GF3	36 F10/F12	600 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	45 s
VT1000.A0A.GF3	36 F10/F12	1000 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	72 s
VT1000.A0B.GF3	36 F10/F12	1000 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	72 s
VT1500.B0A.GF3	46 F14	1500 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	182 s
VT1500.B0B.GF3	46 F14	1500 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	182 s
VT1500.C0A.GF3	46 F12/F16	1500 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	182 s
VT1500.C0B.GF3	46 F12/F16	1500 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	182 s
VT2400.B0A.GF3	46 F14	2400 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	291 s
VT2400.B0B.GF3	46 F14	2400 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	291 s
VT2400.C0A.GF3	46 F12/F16	2400 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	291 s
VT2400.C0B.GF3	46 F12/F16	2400 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	291 s

When sizing the actuator, a safety factor of 1.5x (2x for POSI models) must be taken into account.

BBPR emergency and POSI analogue positioning combined systems "GPS"

Code	Star (mm) connection (ISO 5211)	Torque	Voltages	Power	Operating time (90°)
VT400.A0A.GPS	36 F10/F12	400 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	35 s
VT400.A0B.GPS	36 F10/F12	400 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	35 s
VT600.A0A.GPS	36 F10/F12	600 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	45 s
VT600.A0B.GPS	36 F10/F12	600 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	45 s
VT1000.A0A.GPS	36 F10/F12	1000 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	72 s
VT1000.A0B.GPS	36 F10/F12	1000 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	72 s
VT1500.B0A.GPS	46 F14	1500 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	182 s
VT1500.B0B.GPS	46 F14	1500 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	182 s
VT1500.C0A.GPS	46 F12/F16	1500 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	182 s
VT1500.C0B.GPS	46 F12/F16	1500 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	182 s
VT2400.B0A.GPS	46 F14	2400 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	291 s
VT2400.B0B.GPS	46 F14	2400 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	291 s
VT2400.C0A.GPS	46 F12/F16	2400 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	291 s
VT2400.C0B.GPS	46 F12/F16	2400 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	291 s

BBPR emergency and 3-position electric control combined systems “GFS”

Code	Star (mm) connection (ISO 5211)	Torque	Voltages	Power	Operating time (90°)
VT400.A0A.GFS	36 F10/F12	400 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	35 s
VT400.A0B.GFS	36 F10/F12	400 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	35 s
VT600.A0A.GFS	36 F10/F12	600 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	45 s
VT600.A0B.GFS	36 F10/F12	600 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	45 s
VT1000.A0A.GFS	36 F10/F12	1000 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	72 s
VT1000.A0B.GFS	36 F10/F12	1000 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	72 s
VT1500.B0A.GFS	46 F14	1500 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	182 s
VT1500.B0B.GFS	46 F14	1500 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	182 s
VT1500.C0A.GFS	46 F12/F16	1500 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	182 s
VT1500.C0B.GFS	46 F12/F16	1500 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	182 s
VT2400.B0A.GFS	46 F14	2400 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	291 s
VT2400.B0B.GFS	46 F14	2400 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	291 s
VT2400.C0A.GFS	46 F12/F16	2400 Nm	100 V to 240 V 50/60 Hz (100 V to 300 V DC)	300 W	291 s
VT2400.C0B.GFS	46 F12/F16	2400 Nm	24 V to 48 V 50/60 Hz (24 V to 72 V DC)	300 W	291 s

When sizing the actuator, a safety factor of 1.5x (2x for POSI models) must be taken into account.

Options

Code	Designation
EPR.B	Potentiometer with a range of 100, 1,000, 5,000 or 10,000 ohms for valve position feedback
EFC.2	2 additional switches for open and closed position feedback
VIB	Vibration resistance with reinforced components
MARINE	Norsok M-501 coating system 6A with high durability, guaranteed for 15 years, designed for offshore applications and coastal installations.
IP10	IP68 immersion 10 metres for 72 hours
MODBUS-RTU®	Compatibility with the Modbus-RTU® protocol (see page 17)

Compatibility of options

Code	Compatibility option/functionality						Compatibility option / option				
	STANDARD	BBPR	POSI	3 POSITIONS	POSI BBPR	3 BBPR POSITIONS	EFC.2	IP10	MARINE	VIB	MODBUS
	G00	GS6	GP7	GF3	GPS	GFS					
EPR....B Feedback potentiometer	•	•	•		•		✗	✓	✓	✓	✓
EFC.2 2 additional feedback switches	•	•	•		•			✓	✓	✓	✓
IP10 Waterproof IP68 10 metres 72 hours	•	•	•	•	•	•			✓	✓	✓
MARINE Norsok M-501 coating system 6A	•	•	•	•	•	•				✓	✓
VIB Vibration resistance	•	•	•	•	•	•					✓
MODBUS Control via Modbus-RTU	•	•	•	•	•	•					

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