VRX·VSX

Electric actuators with ATEX approval
for explosive atmospheres

Technical datasheet

25Nm
300Nm

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

Bluetooth™

Modbus

Powered by AXMART®

CE Ex IECEx FC UK CA EAC

valpes.com

valpes
A WATTS Brand

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Description

90° electric actuator with aluminium casing and epoxy coating or highly durable Norsok M-501 marine coating, system 6A, 15-year warranty.

Range designed for applications in ATEX explosive atmospheres (zones 1/2 and 21/22), with manual override via outgoing shaft (VRX) or handwheel (VSX), for torques from 25 to 300 Nm and compliant with EC–ROHS–REACH Directives.

Epoxy coating	Marine coating
Aluminium housing with epoxy coating	Aluminium housing and Norsok M-501 marine coating, system 6A, high durability guaranteed for 15 years, designed for offshore applications and coastal installations.

VRX

VSX

VRX

VSX

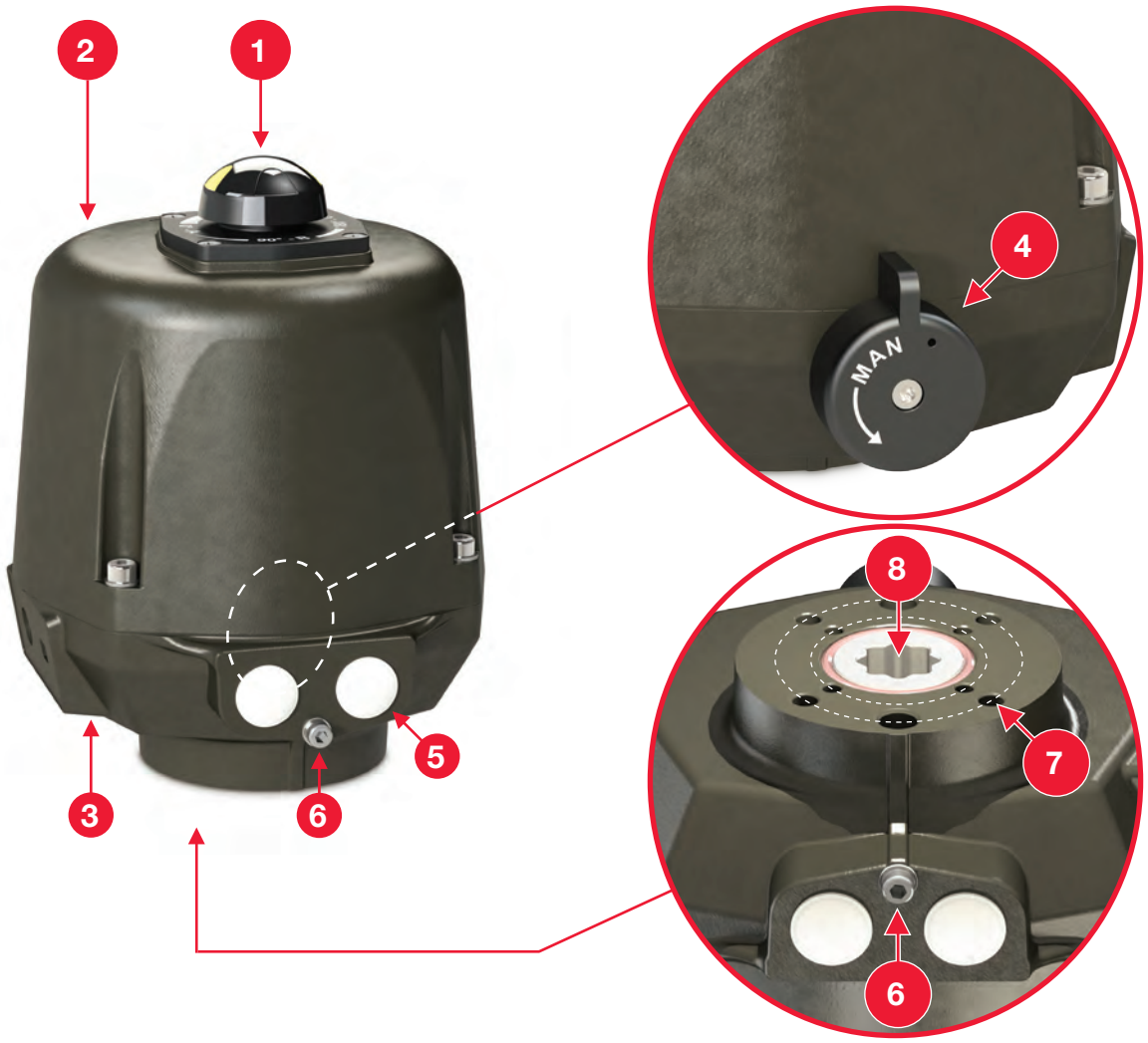
Technical data

	VRX	VSX
Visual position indicator	Modular with yellow and black markers to indicate flow direction	Transparent hemispherical window with open and closed position indication
Control	Electrical control : on-off, 3 modulating points or pulses (500 ms) Fieldbus Modbus-RTU® Wireless : Bluetooth® control via AXMART® Analogue signal : 0-10V or 4-20 mA	
Voltages	15V to 30V AC (50/60Hz) & 12V to 48V DC 100V to 240V AC (50/60Hz) & 100V to 350V DC 3-phase 50/60 Hz 400 V	
Power	45 W (52 W for 400 V)	45 W (135 W for 400 V)
Materials	Housing: Aluminium + EPOXY or high durability marine coating Other external parts: 304L stainless steel or galvanised steel	
Duty cycle	Service S4 - 50% (IEC34)	
Torque limiter	Software	
Serial link	RS485	
Number of starts/hours [1]	150 max.	
Failure feedback relay	Overtorque, excessive temperature, battery status for GS6, GPS and GFS	
Limit switches	2 adjustable NO or NC feedback switches 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)	
Mechanical end stops	0° and 90° (180° and 270° on request)	
Anticondensation heater	10 W self-regulating	
Drive	Étoile 17	Étoile 22
ISO5211 [1] connection plate	F05/F07	F07/F10
Manual control	Clutch release system and outgoing shaft	Steering wheel
Electrical connection	2 ISO M20 threaded holes for ATEX cable glands (not provided)	
Protection	IP68 5 m / 72 h	IP68 5 metres / 72 hours (IP68 10 metres / 72 hours optional)
ATEX marking (standard models)	Ⓔx II 2 G D Ex db IIB T6 Gb Ex tb IIIC T80°C Db - LCIE 06 ATEX 6006 X IECEx LCIE 21.0015X · Operating temperature: -20°C to +70°C	
ATEX marking (models with battery)	Ⓔx II 2 G D Ex db IIB T6 Gb Ex tb IIIC T80°C Db - LCIE 06 ATEX 6006 X IECEx LCIE 21.0015X · Operating temperature: -10°C to +40°C	
ATEX marking (400 V models)	Ⓔx II 2 G D Ex db IIB T5 Gb Ex tb IIIC T95°C Db - LCIE 06 ATEX 6006 X IECEx LCIE 21.0015X · Operating temperature: -20°C to +54°C	
Weight	4.4 kg to 4.9 kg	7 kg to 7.5 kg
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).

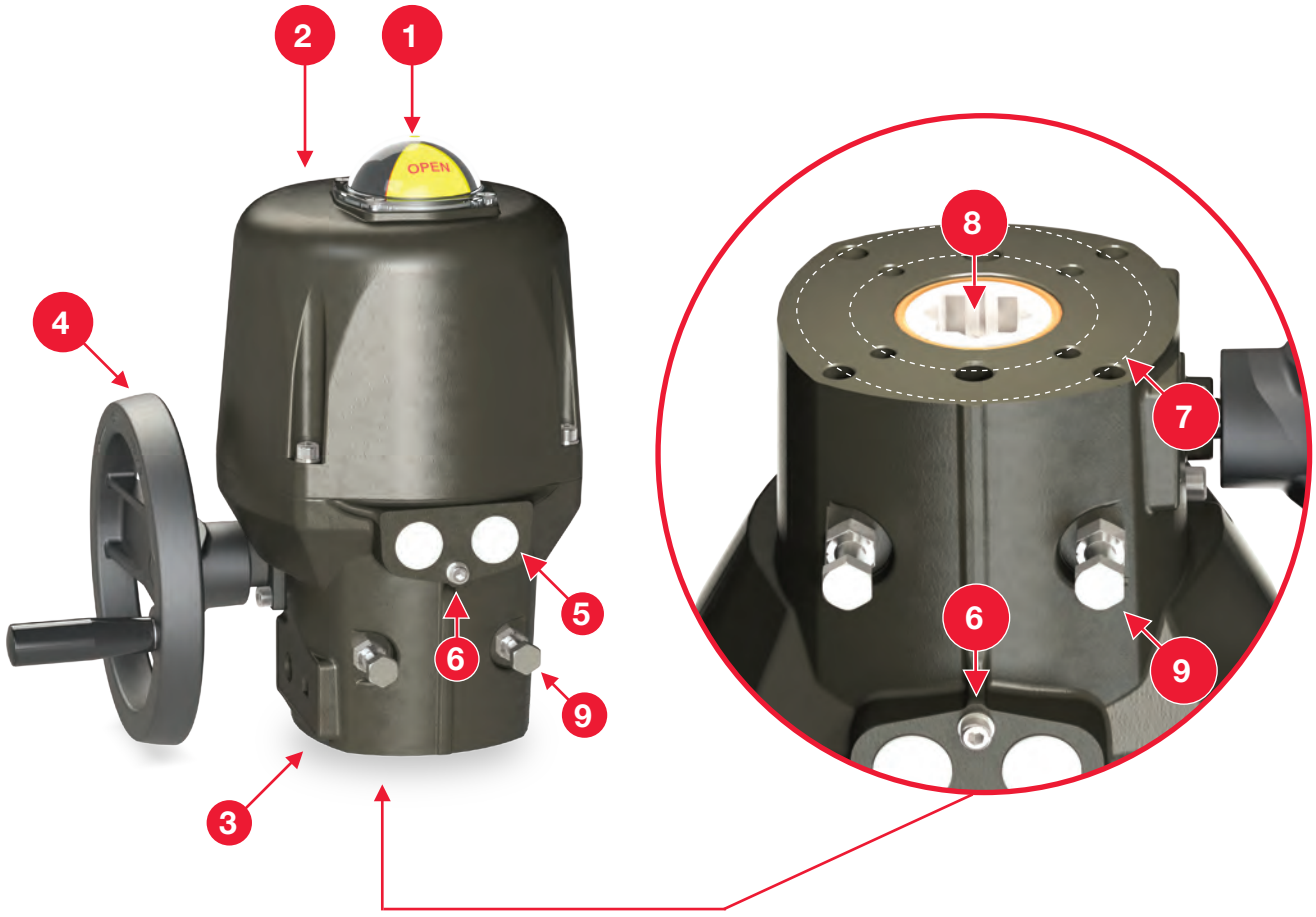
Overview of actuators

VRX



1	Round position indicator with black and yellow markers to symbolise the direction of flow
2	Aluminium + epoxy cover (Norsok marine coating optional)
3	Aluminium + epoxy carter (Norsok marine coating optional)
4	Declutching system for manual override
5	ISO M20 threaded holes for ATEX cable glands
6	Earth screw
7	F05/F07 ISO5211 connection plate
8	17 mm star drive

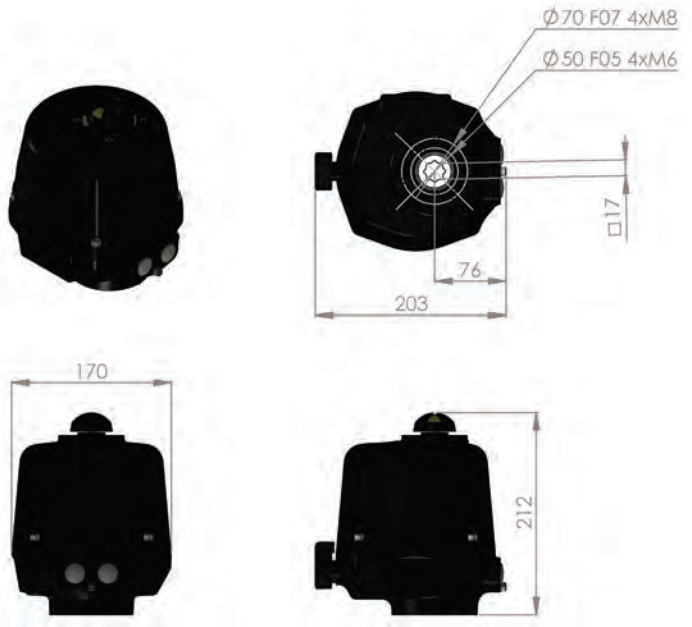
VSX



1	Transparent hemispherical window with open and closed position indication
2	Aluminium + epoxy cover (Norsok marine coating optional)
3	Aluminium + epoxy carter (Norsok marine coating optional)
4	Handwheel for manual override
5	ISO M20 threaded holes for ATEX cable glands
6	Earth screw
7	F07/F10 ISO5211 connection plate
8	22 mm star drive
9	Mechanical end stops

Dimensions

VRX



Drive	
Star (mm)	17
Depth (mm)	19

Plate	F05	F07
Diameter (mm)	50	70
Threaded (mm)	M6	M8
Depth (mm)	15	17
Number of screws	4	4
Height required above the valve to mount the actuator	311 mm	

VSX

Drive	
Star (mm)	22
Depth (mm)	25

Plate	F07	F10
Diameter (mm)	70	102
Threaded (mm)	M8	M10
Depth (mm)	19	24
Number of screws	4	4
Height required above the valve to mount the actuator	375 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 9)
- 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

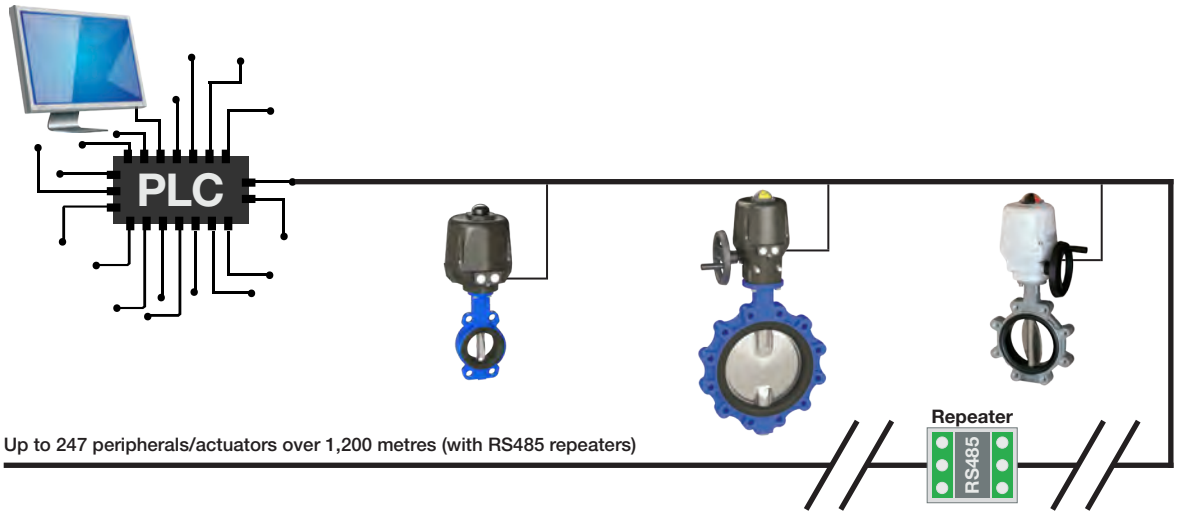
AXMART® allows advanced configuration of actuators. Among other things, it is possible to define the safety position of the BBPR system, the type of analogue signal for the setpoint and feedback of the positioning module, as well as the type of electrical wiring and the operating mode of the actuator.

Modbus-RTU® fieldbus communication

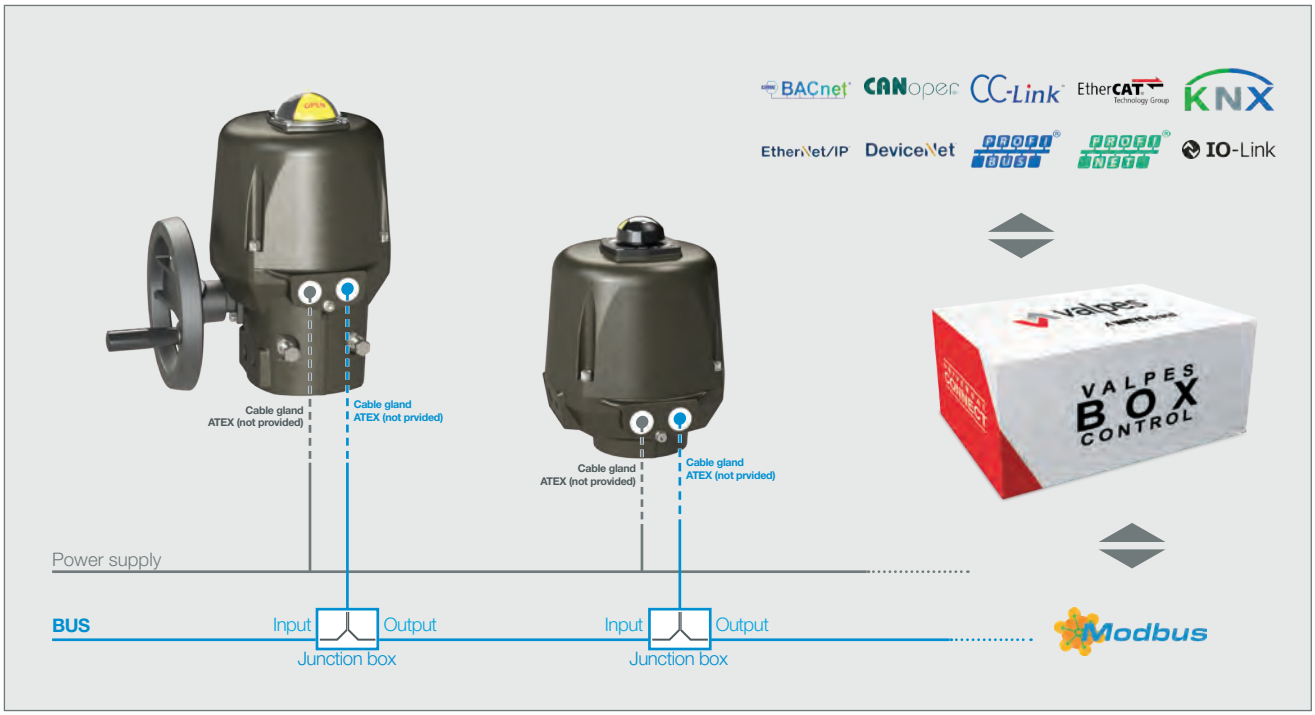
Communication via industrial network protocol through RS485 serial link.

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



Modbus-RTU compatible via the Valpes Box Control with numerous fieldbus protocols



BBPR "GS6" battery backup system

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

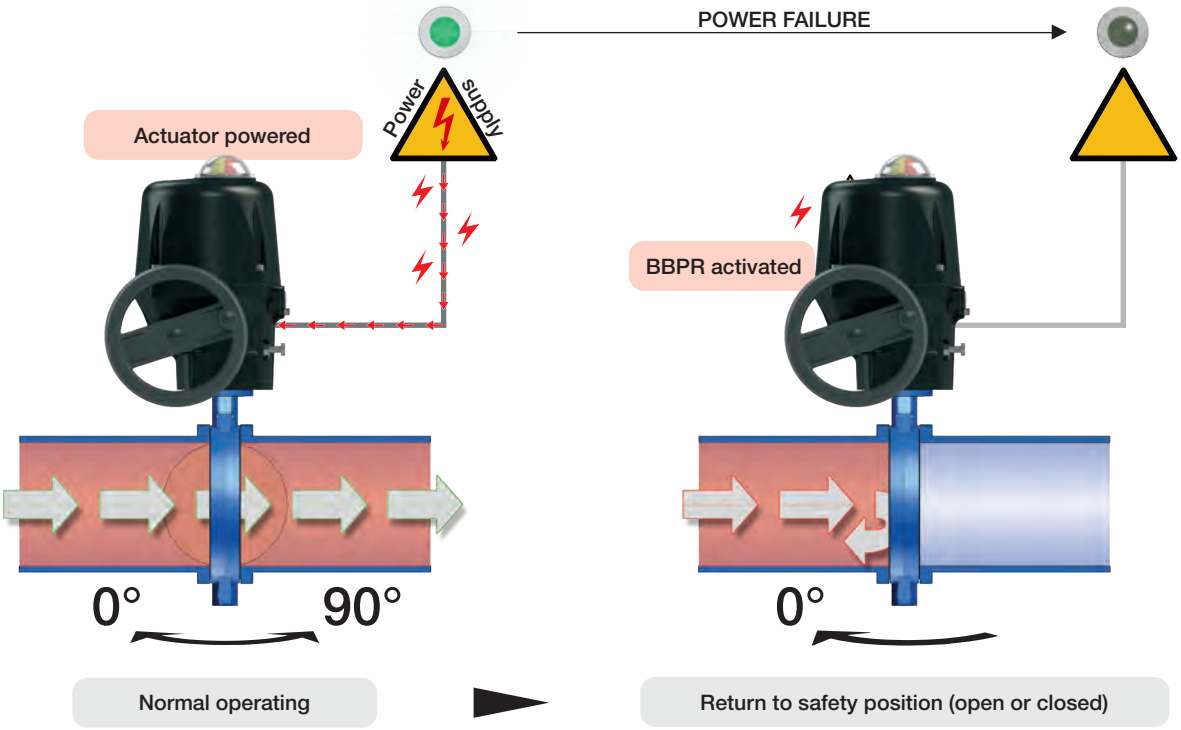
Benefits

- 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 7)
- Compatible with optional Modbus-RTU® protocol (more details at page 8)

AXMART® application & via Bluetooth® connection (more details at page 7)

- **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

Functioning principle



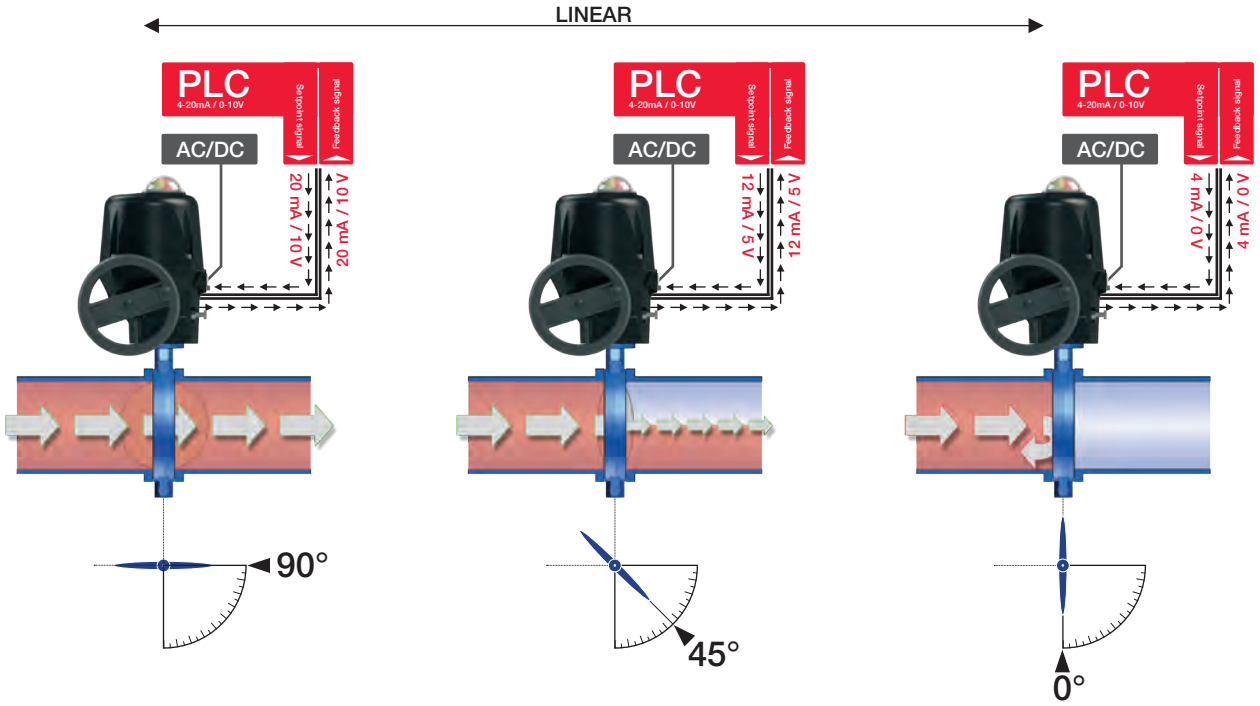
POSI proportional control via analogue signal "GP5"

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

Functioning principle



POSI digital proportional control for Modbus-RTU® "GP8"

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 8)
- Wireless Bluetooth® communication via AXMART® as standard (more details at page 7)

AXMART® application & via Bluetooth® connection (more details at page 7)

- **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

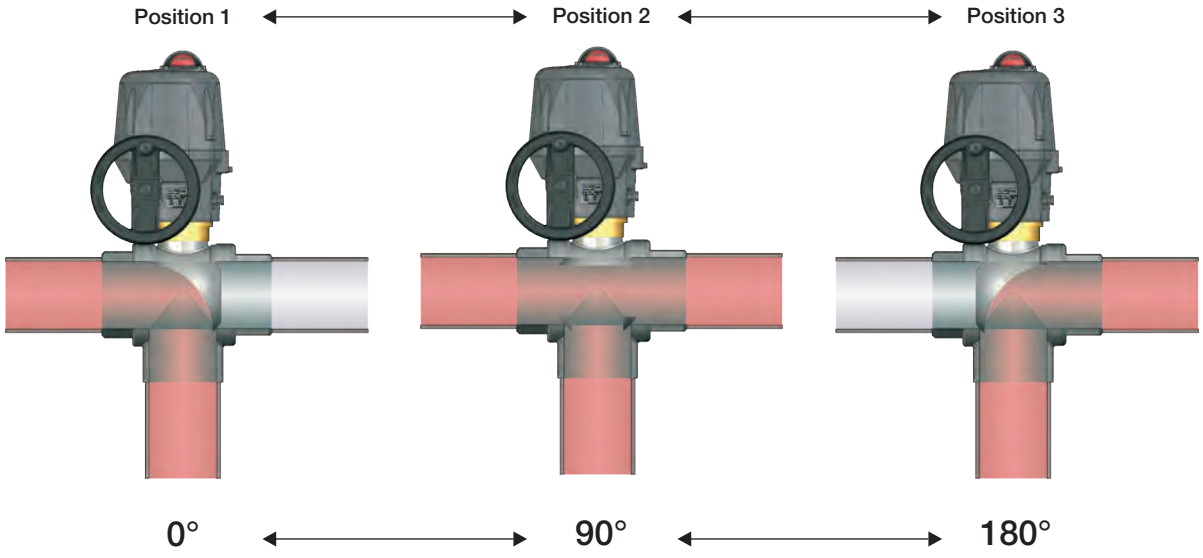
3-position version "GF3"

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 8)
- Bluetooth® wireless communication via optional AXMART® (more details at page 7)

Functioning 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 9) and POSI proportional control systems (see page 10).

- All integrated: no additional wiring
- Optionally compatible with the Modbus-RTU® protocol (more details at page 8)
- Bluetooth® wireless communication via AXMART® as standard (more details at page 7)

AXMART® application & via Bluetooth® connection (more details at page 7)

- **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 9) and 3-position systems (see page 11)

- All integrated: no additional wiring
- Optionally compatible with the Modbus-RTU® protocol (more details at page 8)
- Bluetooth® wireless communication via AXMART® as standard (more details at page 7)

AXMART® application & via Bluetooth® connection (more details at page 7)

- **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 drive / ISO5211 plate	Torque	Voltages	Power	Operating time (90°)
VRX25.70A.G00	17 / F05-F07	25 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	7 s
VRX25.70B.G00	17 / F05-F07	25 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	7 s
VRX45.70A.G00	17 / F05-F07	45 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VRX45.70B.G00	17 / F05-F07	45 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VRX75.70A.G00	17 / F05-F07	75 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	20 s
VRX75.70B.G00	17 / F05-F07	75 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	20 s
VSX100.90A.G00	22 / F05-F07	100 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VSX100.90B.G00	22 / F05-F07	100 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VSX150.90A.G00	22 / F05-F07	150 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	30 s
VSX150.90B.G00	22 / F05-F07	150 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	30 s
VSX300.90A.G00	22 / F05-F07	300 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	60 s
VSX300.90B.G00	22 / F05-F07	300 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	60 s

Electric control (3-phase 400 V) «R00»

Code	Star drive / ISO5211 plate	Torque	Voltages	Power	Operating time (90°)
VRX25.709.R00	17 / F05-F07	25 Nm	3-phase 400 V	52 W	10 s
VRX45.709.R00	17 / F05-F07	45 Nm	3-phase 400 V	52 W	10 s
VRX75.709.R00	17 / F05-F07	75 Nm	3-phase 400 V	52 W	15 s
VSX100.909.R00	22 / F05-F07	100 Nm	3-phase 400 V	135 W	10 s
VSX150.909.R00	22 / F05-F07	150 Nm	3-phase 400 V	135 W	20 s
VSX300.909.R00	22 / F05-F07	300 Nm	3-phase 400 V	135 W	35 s

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

Electric control + BBPR system with backup battery «GS6»

Code	Star drive / ISO5211 plate	Torque	Voltages	Power	Operating time (90°)
VRX25.70A.GS6	17 / F05-F07	25 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	7 s
VRX25.70B.GS6	17 / F05-F07	25 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	7 s
VRX45.70A.GS6	17 / F05-F07	45 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VRX45.70B.GS6	17 / F05-F07	45 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VRX75.70A.GS6	17 / F05-F07	75 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	20 s
VRX75.70B.GS6	17 / F05-F07	75 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	20 s
VSX100.90A.GS6	22 / F05-F07	100 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VSX100.90B.GS6	22 / F05-F07	100 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VSX150.90A.GS6	22 / F05-F07	150 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	30 s
VSX150.90B.GS6	22 / F05-F07	150 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	30 s
VSX300.90A.GS6	22 / F05-F07	300 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	60 s
VSX300.90B.GS6	22 / F05-F07	300 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	60 s

Proportional control via 4-20 mA or 0-10 V signal «GP5»

Code	Star drive / ISO5211 plate	Torque	Voltages	Power	Operating time (90°)
VRX25.70A.GP5	17 / F05-F07	25 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VRX25.70B.GP5	17 / F05-F07	25 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VRX45.70A.GP5	17 / F05-F07	45 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VRX45.70B.GP5	17 / F05-F07	45 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VRX75.70A.GP5	17 / F05-F07	75 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	20 s
VRX75.70B.GP5	17 / F05-F07	75 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	20 s
VSX100.90A.GP5	22 / F05-F07	100 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VSX100.90B.GP5	22 / F05-F07	100 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VSX150.90A.GP5	22 / F05-F07	150 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	30 s
VSX150.90B.GP5	22 / F05-F07	150 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	30 s
VSX300.90A.GP5	22 / F05-F07	300 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	60 s
VSX300.90B.GP5	22 / F05-F07	300 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	60 s

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

Proportional control for fieldbus Modbus-RTU «GP8»

Code	Star drive / ISO5211 plate	Torque	Voltages	Power	Operating time (90°)
VRX25.70A.GP8	17 / F05-F07	25 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VRX25.70B.GP8	17 / F05-F07	25 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VRX45.70A.GP8	17 / F05-F07	45 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VRX45.70B.GP8	17 / F05-F07	45 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VRX75.70A.GP8	17 / F05-F07	75 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	20 s
VRX75.70B.GP8	17 / F05-F07	75 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	20 s
VSX100.90A.GP8	22 / F05-F07	100 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VSX100.90B.GP8	22 / F05-F07	100 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VSX150.90A.GP8	22 / F05-F07	150 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	30 s
VSX150.90B.GP8	22 / F05-F07	150 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	30 s
VSX300.90A.GP8	22 / F05-F07	300 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	60 s
VSX300.90B.GP8	22 / F05-F07	300 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	60 s

BBPR emergency and POSI analogue positioning combined systems "GPS"

Code	Star drive / ISO5211 plate	Torque	Voltages	Power	Operating time (90°)
VRX25.70A.GPS	17 / F05-F07	25 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VRX25.70B.GPS	17 / F05-F07	25 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VRX45.70A.GPS	17 / F05-F07	45 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VRX45.70B.GPS	17 / F05-F07	45 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VRX75.70A.GPS	17 / F05-F07	75 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	20 s
VRX75.70B.GPS	17 / F05-F07	75 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	20 s
VSX100.90A.GPS	22 / F05-F07	100 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VSX100.90B.GPS	22 / F05-F07	100 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VSX150.90A.GPS	22 / F05-F07	150 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	30 s
VSX150.90B.GPS	22 / F05-F07	150 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	30 s
VSX300.90A.GPS	22 / F05-F07	300 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	60 s
VSX300.90B.GPS	22 / F05-F07	300 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	60 s

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

3-position electric control “GF3”

Code	Star drive / ISO5211 plate	Torque	Voltages	Power	Operating time (90°)
VRX25.70A.GF3	17 / F05-F07	25 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	7 s
VRX25.70B.GF3	17 / F05-F07	25 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	7 s
VRX45.70A.GF3	17 / F05-F07	45 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VRX45.70B.GF3	17 / F05-F07	45 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VRX75.70A.GF3	17 / F05-F07	75 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	20 s
VRX75.70B.GF3	17 / F05-F07	75 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	20 s
VSX100.90A.GF3	22 / F05-F07	100 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VSX100.90B.GF3	22 / F05-F07	100 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VSX150.90A.GF3	22 / F05-F07	150 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	30 s
VSX150.90B.GF3	22 / F05-F07	150 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	30 s
VSX300.90A.GF3	22 / F05-F07	300 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	60 s
VSX300.90B.GF3	22 / F05-F07	300 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	60 s

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

Code	Star drive / ISO5211 plate	Torque	Voltages	Power	Operating time (90°)
VRX25.70A.GFS	17 / F05-F07	25 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	7 s
VRX25.70B.GFS	17 / F05-F07	25 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	7 s
VRX45.70A.GFS	17 / F05-F07	45 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VRX45.70B.GFS	17 / F05-F07	45 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VRX75.70A.GFS	17 / F05-F07	75 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	20 s
VRX75.70B.GFS	17 / F05-F07	75 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	20 s
VSX100.90A.GFS	22 / F05-F07	100 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VSX100.90B.GFS	22 / F05-F07	100 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VSX150.90A.GFS	22 / F05-F07	150 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	30 s
VSX150.90B.GFS	22 / F05-F07	150 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	30 s
VSX300.90A.GFS	22 / F05-F07	300 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	60 s
VSX300.90B.GFS	22 / F05-F07	300 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	60 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	Feedback potentiometer with a range of 100, 1000, 5000 or 10,000 Ohms for valve position feedback
EPT.C	4-20mA or 0-10V signal transmitter for valve position
EFC.2	2 additional switches for open and closed position feedback
IP10	IP68 immersion 10 metres for 72 hours (available for VSX models)
MARINE	Norsok M-501 coating system 6A with high durability, guaranteed for 15 years, designed for offshore applications and coastal installations.
VIB	Vibration resistance with reinforced components
HUMPRO	Power supply board coated to prevent damage from humidity
MODBUS-RTU®	Compatibility with the Modbus-RTU® protocol (see page 8)

Compatibility of options

	Option/version compatibility								Option/option compatibility						
Code	**Standard multivolt G00**	**Standard 400 V R00**	**BBPR GS6**	**POSI GP5**	**POSI Modbus RTU GP8**	**POSI-BBPR GPS**	**3 positions GF3**	**3-POSITION-BBPR GFS**	EPT.C	EFC.2	IP10	MARINE	VIB	HUMPRO	MODBUS
EPR....B Feedback potentiometer	•	•							✗	✗	✓	✓	✗	✓	✓
EPT.C Transmitter (operating time >10 seconds)	•									✗	✓	✓	✗	✓	✓
EFC.2 2 additional feedback switches	•	•									✓	✓	✗	✓	✓
IP10 Waterproof IP68 10 metres 72 hours	• (VSX)	• (VSX)	• (VSX)	• (VSX)	• (VSX)	• (VSX)	• (VSX)	• (VSX)				✓	✓	✓	✓
MARINE Norsok M-501 coating system 6A	•	•	•	•	•	•	•	•					✓	✓	✓
VIB Vibration resistance	•	•	•	•	•	•	•	•						✓	✓
HUMPRO Varnished power supply card	•		•	•	•	•	•	•							✓
MODBUS Control via Modbus-RTU	• (1)		•		std	•	• (1)	•							

(1) Position feedback switches are not available

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