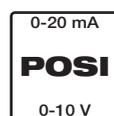


VR·VS

Electric actuators

Technical Data Sheet



Description



VR (25-75 Nm)



VS (40-300 Nm)

90° electric actuator, aluminium housing with epoxy coating and polyamide PA6 UL 94 V-0 or aluminium cover (option) with secured manual override for torques of 25 to 300 Nm in accordance with CE-ROHS-REACH Directives..

Technical data	p.2
Actuators overview	p.4
Options overview	p.6
Dimensions	p.7
Wireless Bluetooth® communication via AXMART®	p.8
Modbus-RTU® fieldbus communication	p.9
BBPR function safety system for power failure.	p.10
POSI proportionnal control with analogue signal and Modbus-RTU protocol	p.11
3 position version	p.12
Combined versions GPS and GFS	p.13
Ordering code	p.14
Options compatibility	p.18

Technical data (VR)

Visual position indicator	Modular with black and yellow marks
Actuator control	<ul style="list-style-type: none"> - Power supply control: on-off, 3 modulating points or pulsed (500 ms) - Field bus: Modbus-RTU® - Wireless: Bluetooth® control via AXMART® - analogue signal: 0-10V or 4-20mA
Volage	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)
Materials	Carter: Aluminium + EPOXY paint Cover: PA6 UL 94 V-0 or aluminium + EPOXY paint (option) Other external parts: 304L Stainless Steel or Steel + Zn treatment
Duty cycle	Service S4 - 50 % (IEC34)
Torque limiter	Software
Serial link	RS485
Number of starts/hour ¹⁾	150
Feedback relay	Failure (overtorque, excessive temperature..) Battery status for GS6, GPS and GFS models
End limit switches	2 adjustable NO or NC electrical feedback contacts 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 loads)
End limit mecanical stops	0° and 90° (180° and 270° on request)
Anticondensation resistor	10 W self-regulated
Drive	Star 17
Mounting plate ISO5211 ¹⁾	F05/F07
Manual override	Declutching system and outgoing shaft
Electrical connection	2x ISO M20 cable gland

Operating and storage temperature	-20 °C to +70 °C (actuators with battery : -10 °C to +40 °C)
Ingress protection	IP68 2 m / 72 h (5 m / 72 h with aluminium cover option)
Weight	3,4 Kg to 4,9 Kg
Warranty ²⁾	3 year or 50 000 stroke warranty

¹⁾ See operating instructions for recommended use.

²⁾ Tested under the most unfavourable conditions (at maximum torque and duty cycle).

Technical data (VS)

Visual position indicator	Transparent hemispherical window with open and closed position indication
Actuator control	<ul style="list-style-type: none"> - Power supply control: on-off, 3 modulating points or pulsed (500 ms) - Field bus: Modbus-RTU® - Wireless: Bluetooth® control via AXMART® - analogue signal: 0-10V or 4-20mA
Volage	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 (135 W for 400 V)
Materials	Carter: Aluminium + EPOXY paint Cover: PA6 UL 94 V-0 or aluminium + EPOXY paint (option) Other external parts: 304L Stainless Steel or Steel + Zn treatment
Duty cycle	Service S4 - 50 % (IEC34)
Torque limiter	Software
Serial link	RS485
Number of starts/hour ¹⁾	150
Feedback relay	Failure (overtorque, excessive temperature..) Battery status for GS6, GPS and GFS models
End limit switches	2 adjustable NO or NC electrical feedback contacts 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 loads)
End limit mecanical stops	0° and 90° (180° and 270° on request)
Anticondensation resistor	10 W self-regulated
Drive	Star 22
Mounting plate ISO5211 ¹⁾	F07/F10
Manual override	Hand wheel
Electrical connection	2x ISO M20 cable gland
Operating and storage temperature	-20 °C to +70 °C (actuators with battery : -10 °C to +40 °C)
Ingress protection	IP68 2 m / 72 h IP68 5 m / 72 h with full aluminium housing IP68 10 m / 72 h with full aluminium housing and specific option
Weight	6 Kg to 7,5 Kg
Warranty ²⁾	3 year or 50 000 stroke warranty

¹⁾ See operating instructions for recommended use.

²⁾ Tested under the most unfavourable conditions (at maximum torque and duty cycle).

Actuators overview

VR



- 1** Round position indicator with black and yellow markers to symbolise flow direction
- 2** Polyamide UL 94 V-0 cover (aluminium + epoxy as option)
- 3** Aluminium + epoxy carter
- 4** Clutch release button for manual override
- 5** Cable glands for power supply and feedback wiring
- 6** Housing earth connection screw
- 7** F05/F07 ISO5211 connection plate
- 8** 17 mm star drive

VS



- 1** Transparent hemispherical window with open and closed position indication
- 2** Polyamide UL 94 V-0 cover (aluminium + epoxy as option)
- 3** Aluminium + epoxy carter
- 4** Hand wheel for manual override
- 5** Cable glands for power supply and feedback wiring
- 6** Housing earth connection screw
- 7** F07/F10 ISO5211 connection plate
- 8** 22 mm star drive
- 9** Mechanical stops

Options overview



ECA

Aluminium cover for greater protection and durability. This option provides IP68 5 m 72 h waterproofing for the VR and the 10 m 72 h option for the VS.



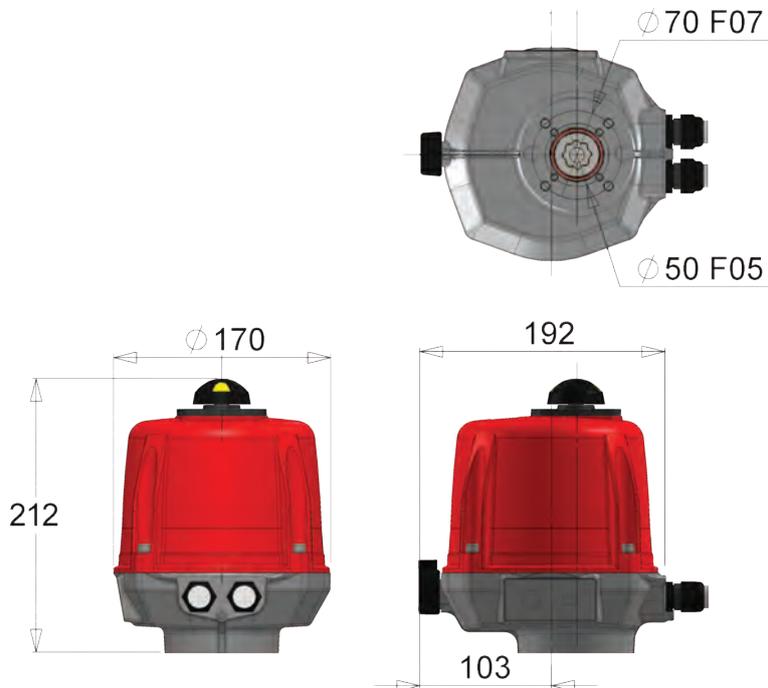
MARINE

Highly durable Norsok M-501 system 6A coating, with 15-year guarantee, designed for offshore applications and coastal installations (includes aluminium cover option).

<p>1 EPR.B Feedback potentiometer for valve position feedback (100 / 1000 / 5000 / 10000 Ohms)</p>	<p>2 MODBUS Compatibility with Modbus-RTU protocols (see page 9)</p>
<p>3 EPT.C Signal transmitter for valve position feedback (4-20mA or 0-10 V)</p>	<p>4 LMO Padlockable protection system for the clutch release button, available for VR models</p>
<p>5 EFC.2 2 additional switches for open and closed position extra feedback information</p>	<p>6 ECM.4 4P M12 connector for power supply (24 V 50/60 Hz and 24 V DC maximum)</p>
<p>7 ECM.8 8P M12 connector for position feedback and options electrical connection (24 V 1.5 A maximum)</p>	<p>8 MULTI.24 24-pin connector offering single wiring to all compatible actuator models. This connector also functions as a junction box for Modbus-RTU networks.</p>
<p>9 BLUETOOTH® Wireless connection via Axmart (see page 8)</p>	<p>10 LC Local control box</p>
<p>11 VIB Vibration proof with reinforced components</p>	<p>12 NPT One or two ISO M20 to 1/2" NPT adapter</p>
<p>13 HUMPRO Varnished power supply board to prevent humidity damages</p>	<p>14 IP10 Immersion IP68 10 metres for 72 hours, available for VS models</p>

Dimensions

VR



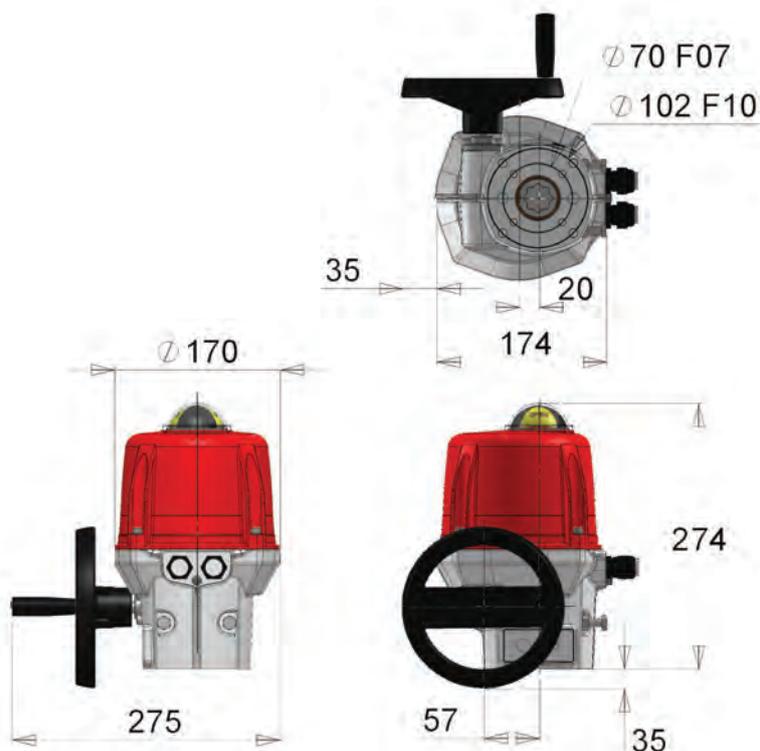
Drive

Star (mm)	17
Depth (mm)	19

Plate

	F05	F07
Diameter (mm)	50	70
Threaded (mm)	M6	M8
Depth (mm)	15	17
Number of crews	4	4
Minimum distance above the valve for actuator mounting	311 mm	

VS



Drive

Star (mm)	22
Depth (mm)	25

Plate

	F07	F10
Diameter (mm)	70	102
Threaded (mm)	M8	M10
Depth (mm)	19	24
Number of crews	4	4
Minimum distance above the valve for actuator mounting	375 mm	

Wireless Bluetooth® communication via AXMART®

Bluetooth® communication via AXMART® v3, the management and control interface for Valpes electric actuator.

Customer benefits

- Usable within a range of 15 meters in open field
- Available for free on Android and IOS
- As standard with BBPR safety system for power Failure (see page 10)
- Physical jumper to activate or deactivate the wireless connection



Monitoring & Status

AXMART® provides a real time actuator parameters check. Servicing an installation with actuators equipped with the Bluetooth® communication module becomes an easy task. It only requires a few seconds to achieve and validate function tests using your tablet or smartphone once the Valpes Application AXMART® has been downloaded. Maintenance operations will be much easier as you can read operation records from actuators. This is a good way to save time while minimizing risks.

Connect & Control

The Valpes Bluetooth® communication module offers a secured connection. It enables the communication with any actuator, whether visible or not and even when concealed (actuators located under floor, in a pit, above ceiling, at height). In all situations, this interface is perfect as a local control device.

Weekly Programming

The actuator becomes autonomous with the integrated timer, which allows a scheduling of twenty operations a week. Simple and cost effective! Neither programmable logic controller (PLC) - electric cabinet nor control operator is required.

Configuration

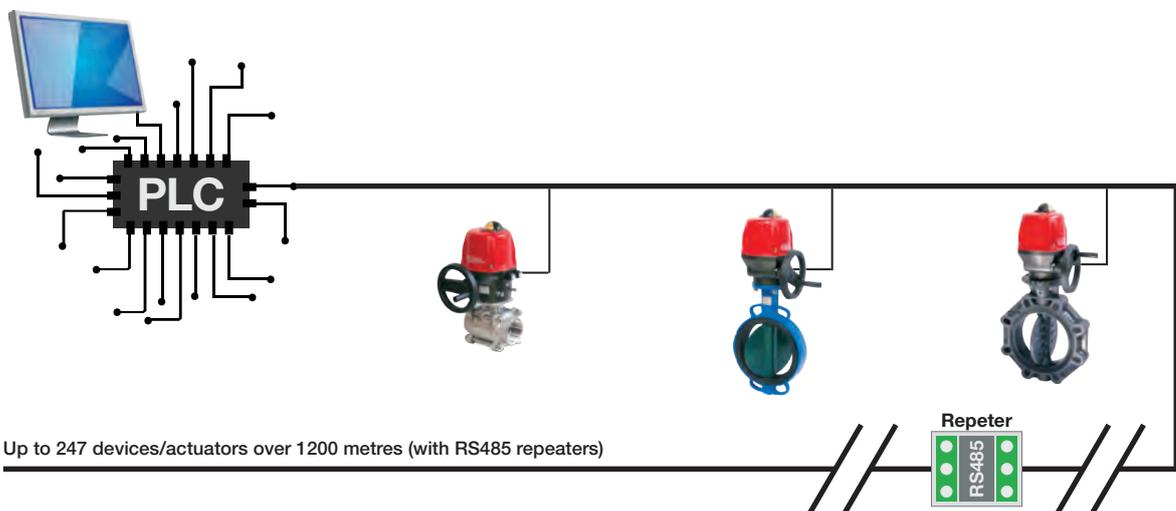
AXMART® allows advanced configuration of actuators. Among other things, it is possible to define the safety position of the BBPR system, the type of analogue signal for the setpoint and feedback of the positioning module, as well as the type of electrical wiring and the operating mode of the actuator.

Modbus-RTU® fieldbus communication

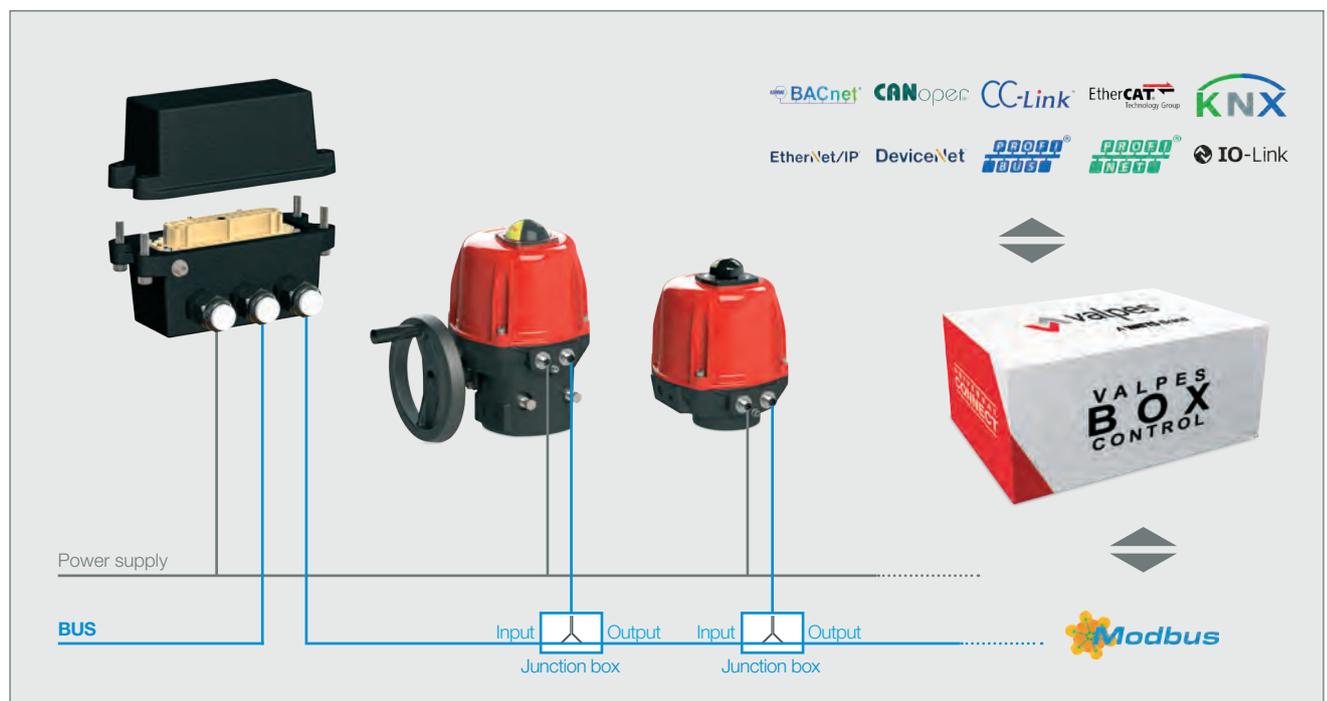
Industrial communication protocol via RS485 serial link.

Customer benefits

- Modbus-RTU approved by “Modbus organisation”
- Half-duplex serial link
- Up to 31 actuators over 1200 metres per line
- Up to 247 actuators with repeaters
- Can be integrated into most industrial networks using Valpes Box Control
- Removable termination resistor included



Our pre-wired plug & play solutions, with or without junction box, compatible with other protocols via Valpes Box Control



BBPR function safety system for power failure “GS6”

Actuators with battery pack for backup to safety position in case of power failure.

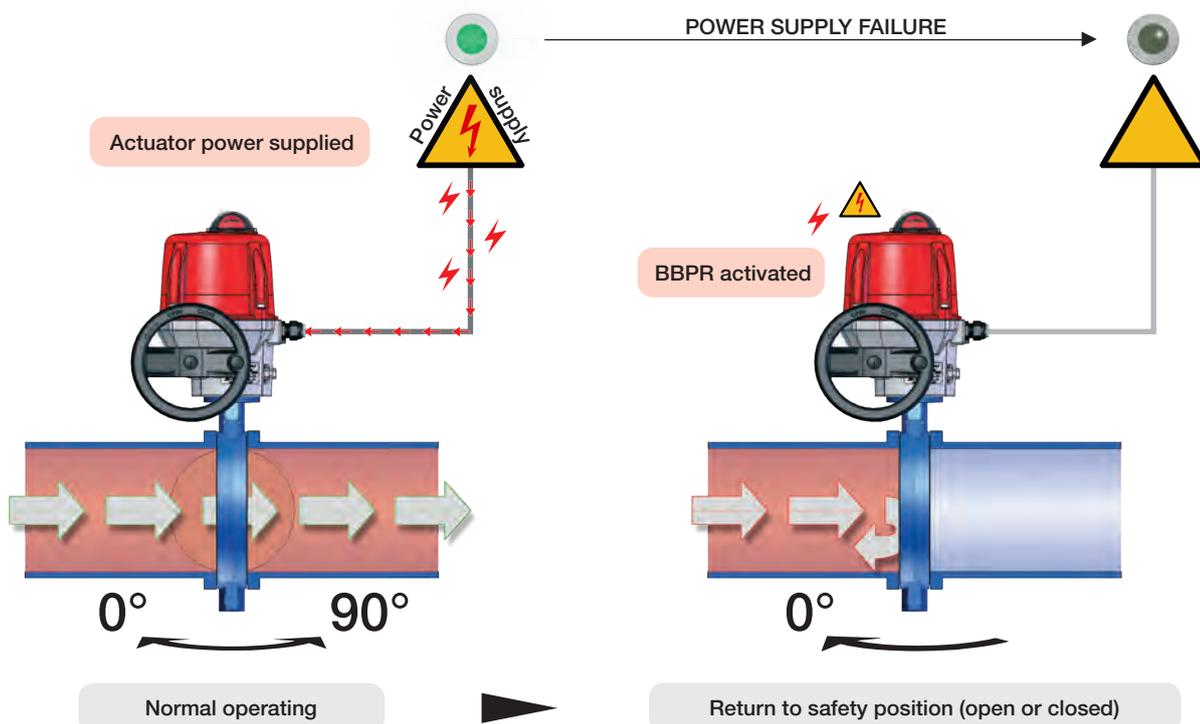
Customer benefits

- 18-month warranty from delivery date (see general sales conditions)
- All in one: no additional wiring required
- Integrates Bluetooth® communication and AXMART® functionalities
- “Fail to set” (closed, open) easily adjustable with the AXMART application
- Real-time battery charge and system status information
- Power shut off after 2 mn to avoid battery discharging
- Torque limiter extended to emergency operation
- Quick and easy replacement of the battery
- Failure report (overtorque, excessive temperature, non-functional battery)
- Wireless Bluetooth® communication via AXMART® as standard (more detail on page 8)
- Compatible with Modbus-RTU® protocol as option (more detail on page 9)

AXMART® application & via Bluetooth® connection (more detail on page 8)

- **Monitoring:** provides a real time status of the parameters of the actuator and the battery
- **Configuration** of the safety backup position (“fail to closed” or “fail to open”).
- **Local control** of the actuator in a 15-meter range
- **Weekly programming** of 20 tasks to automate the actuator without a PLC or operator
- **Physical jumper** to activate or deactivate the wireless connection

Functioning principle



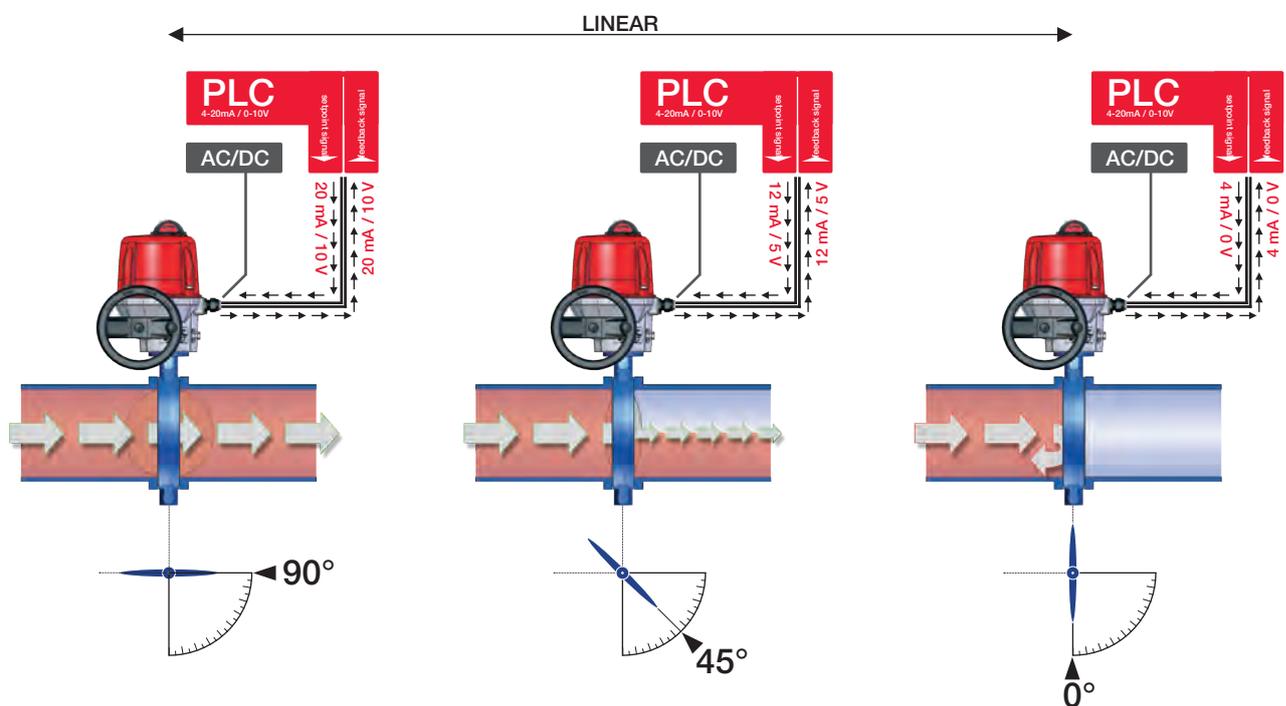
POSI proportionnal control with analogue signal “GP5”

Actuators with proportional positioning according current (4-20 mA) or voltage (0-10 V) analogue setpoint signal.

Customer benefits

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

Functioning principle



POSI-Modbus-RTU proportionnal control for fieldbus “GP8”

Customer benefits

- Failure report (overtorque and overtemperature)
- Electronic torque limiter
- Analogue (4-20 mA or 0-10 V) and digital (Modbus-RTU or Bluetooth®) control
- Full compatibility with Modbus-RTU protocol as standard (more detail on page 9)
- Wireless Bluetooth® communication via AXMART® as standard (more detail on page 8)

AXMART® application  &  via Bluetooth® connection (more detail on page 8)

- **Monitoring:** provides a real time status of the parameters of the actuator and its position
- **Configuration** of the type of setpoint and feedback signal for analogue mode
- **Local control** of the actuator in a 15-meter range
- **Weekly programming** of 20 tasks to automate the actuator without a PLC or operator
- **Physical jumper** to activate or deactivate the wireless connection

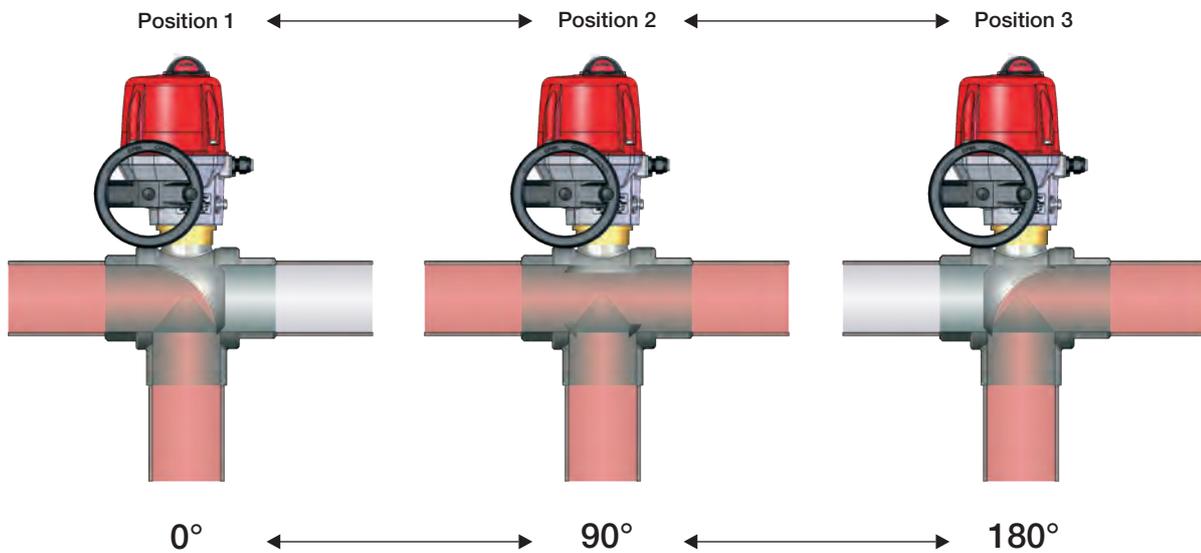
3 position version “GF3”

Actuators with an intermediate position between 0° and 90°, 180° or 270° to automate L or T 3-way valves.

Customer benefits

- All in one: no additional wiring required
- Electronic torque limiter
- Feedback switches for each position
- Failure report
- Rotation up to 270°
- Compatible with Modbus-RTU® protocol as option (more detail on page 9)
- Wireless Bluetooth® communication via AXMART® as option (more detail on page 8)

Functioning principle



Combined version POSI-BBPR “GPS”

Combination of proportional positioning according current (4-20 mA) or voltage (0-10 V) analogue setpoint signal or Modbus-RTU® communication and BBPR battery pack for backup to safety position in case of power failure.

Customer benefits

Combined advantages of BBPR systems (see page 10) and proportional control (see page 11)

- All in one: no additional wiring required
- Compatible with Modbus-RTU® protocol as option (more detail on page 9)
- Wireless Bluetooth® communication via AXMART® as standard (more detail on page 8)

AXMART® application & via Bluetooth® connection (more detail on page 8)

- **Monitoring:** provides a real time status of the parameters of the actuator and the battery
- **Configuration** of the safety backup position (“fail to closed” or “fail to open”)
- **Configuration** of the type of setpoint and feedback signal in case of using with analogue mode
- **Local control** of the actuator in a 15-meter range
- **Weekly programming** of 20 tasks to automate the actuator without a PLC or operator
- **Physical jumper** to activate or deactivate the wireless connection

Combined version 3-POSITION-BBPR “GFS”

Combination of 3-position system between 0° and 90°, 180° or 270° and BBPR battery pack for backup to safety position in case of power failure.

Customer benefits

Combined advantages of BBPR systems (see page 10) and 3 positions (see page 12)

- All in one: no additional wiring required
- Compatible with Modbus-RTU® protocol as option (more detail on page 9)
- Wireless Bluetooth® communication via AXMART® as standard (more detail on page 8)

AXMART® application & via Bluetooth® connection (more detail on page 8)

- **Monitoring:** provides a real time status of the parameters of the actuator and the battery
- **Configuration** of the safety backup position (“fail to closed” or “fail to open”)
- **Local control** of the actuator in a 15-meter range
- **Weekly programming** of 20 tasks to automate the actuator without a PLC or operator
- **Physical jumper** to activate or deactivate the wireless connection

Ordering codes

Electric control «G00»

Code	Star drive nut / Connection	Torque	Voltages	Power	Operating time (90°)
VR25.70A.G00	17 / F05-F07	25 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	7 s
VR25.70B.G00	17 / F05-F07	25 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	7 s
VR45.70A.G00	17 / F05-F07	45 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VR45.70B.G00	17 / F05-F07	45 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VR75.70A.G00	17 / F05-F07	75 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	20 s
VR75.70B.G00	17 / F05-F07	75 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	20 s
VS40.90A.G00	22 / F05-F07	40 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS40.90B.G00	22 / F05-F07	40 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VS70.90A.G00	22 / F05-F07	70 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS70.90B.G00	22 / F05-F07	70 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VS100.90A.G00	22 / F05-F07	100 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS100.90B.G00	22 / F05-F07	100 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VS150.90A.G00	22 / F05-F07	150 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	30 s
VS150.90B.G00	22 / F05-F07	150 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	30 s
VS300.90A.G00	22 / F05-F07	300 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	60 s
VS300.90B.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 «R00» (3-phase 400 V)

Code	Star drive nut / Connection	Torque	Voltages	Power	Operating time (90°)
VR25.709.R00	17 / F05-F07	25 Nm	3-phase 400 V	52 W	10 s
VR45.709.R00	17 / F05-F07	45 Nm	3-phase 400 V	52 W	10 s
VR75.709.R00	17 / F05-F07	75 Nm	3-phase 400 V	52 W	15 s
VS100.909.R00	22 / F05-F07	100 Nm	3-phase 400 V	135 W	10 s
VS150.909.R00	22 / F05-F07	150 Nm	3-phase 400 V	135 W	20 s
VS300.909.R00	22 / F05-F07	300 Nm	3-phase 400 V	135 W	35 s



When sizing the actuator, please consider x1.5 safety factor (2x for POSI models)

Electric control + emergency battery BBPR system «GS6»

Code	Star drive nut / Connection	Torque	Voltages	Power	Operating time (90°)
VR25.70A.GS6	17 / F05-F07	25 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	7 s
VR25.70B.GS6	17 / F05-F07	25 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	7 s
VR45.70A.GS6	17 / F05-F07	45 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VR45.70B.GS6	17 / F05-F07	45 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VR75.70A.GS6	17 / F05-F07	75 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	20 s
VR75.70B.GS6	17 / F05-F07	75 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	20 s
VS40.90A.GS6	22 / F05-F07	40 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS40.90B.GS6	22 / F05-F07	40 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VS70.90A.GS6	22 / F05-F07	70 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS70.90B.GS6	22 / F05-F07	70 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VS100.90A.GS6	22 / F05-F07	100 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS100.90B.GS6	22 / F05-F07	100 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VS150.90A.GS6	22 / F05-F07	150 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	30 s
VS150.90B.GS6	22 / F05-F07	150 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	30 s
VS300.90A.GS6	22 / F05-F07	300 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	60 s
VS300.90B.GS6	22 / F05-F07	300 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	60 s

Analogue 4-20 mA or 0-10 V proportionnal control «GP5»

Code	Star drive nut / Connection	Torque	Voltages	Power	Operating time (90°)
VR25.70A.GP5	17 / F05-F07	25 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VR25.70B.GP5	17 / F05-F07	25 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VR45.70A.GP5	17 / F05-F07	45 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VR45.70B.GP5	17 / F05-F07	45 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VR75.70A.GP5	17 / F05-F07	75 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	20 s
VR75.70B.GP5	17 / F05-F07	75 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	20 s
VS40.90A.GP5	22 / F05-F07	40 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS40.90B.GP5	22 / F05-F07	40 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VS70.90A.GP5	22 / F05-F07	70 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS70.90B.GP5	22 / F05-F07	70 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VS100.90A.GP5	22 / F05-F07	100 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS100.90B.GP5	22 / F05-F07	100 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VS150.90A.GP5	22 / F05-F07	150 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	30 s
VS150.90B.GP5	22 / F05-F07	150 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	30 s
VS300.90A.GP5	22 / F05-F07	300 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	60 s
VS300.90B.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, please consider x1.5 safety factor (2x for POSI models)

Modbus-RTU proportionnal control «GP8»

Code	Star drive nut / Connection	Torque	Voltages	Power	Operating time (90°)
VR25.70A.GP8	17 / F05-F07	25 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VR25.70B.GP8	17 / F05-F07	25 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VR45.70A.GP8	17 / F05-F07	45 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VR45.70B.GP8	17 / F05-F07	45 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VR75.70A.GP8	17 / F05-F07	75 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	20 s
VR75.70B.GP8	17 / F05-F07	75 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	20 s
VS40.90A.GP8	22 / F05-F07	40 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS40.90B.GP8	22 / F05-F07	40 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VS70.90A.GP8	22 / F05-F07	70 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS70.90B.GP8	22 / F05-F07	70 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VS100.90A.GP8	22 / F05-F07	100 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS100.90B.GP8	22 / F05-F07	100 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VS150.90A.GP8	22 / F05-F07	150 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	30 s
VS150.90B.GP8	22 / F05-F07	150 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	30 s
VS300.90A.GP8	22 / F05-F07	300 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	60 s
VS300.90B.GP8	22 / F05-F07	300 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	60 s

Combined system BBPR system and POSI Analogue 4-20 mA or 0-10 V proportionnal control «GPS»

Code	Star drive nut / Connection	Torque	Voltages	Power	Operating time (90°)
VR25.70A.GPS	17 / F05-F07	25 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VR25.70B.GPS	17 / F05-F07	25 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VR45.70A.GPS	17 / F05-F07	45 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VR45.70B.GPS	17 / F05-F07	45 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VR75.70A.GPS	17 / F05-F07	75 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	20 s
VR75.70B.GPS	17 / F05-F07	75 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	20 s
VS40.90A.GPS	22 / F05-F07	40 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS40.90B.GPS	22 / F05-F07	40 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VS70.90A.GPS	22 / F05-F07	70 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS70.90B.GPS	22 / F05-F07	70 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VS100.90A.GPS	22 / F05-F07	100 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS100.90B.GPS	22 / F05-F07	100 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VS150.90A.GPS	22 / F05-F07	150 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	30 s
VS150.90B.GPS	22 / F05-F07	150 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	30 s
VS300.90A.GPS	22 / F05-F07	300 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	60 s
VS300.90B.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, please consider x1.5 safety factor (2x for POSI models)

3 position electric control «GF3»

Code	Star drive nut / Connection	Torque	Voltages	Power	Operating time (90°)
VR25.70A.GF3	17 / F05-F07	25 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	7 s
VR25.70B.GF3	17 / F05-F07	25 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	7 s
VR45.70A.GF3	17 / F05-F07	45 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VR45.70B.GF3	17 / F05-F07	45 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VR75.70A.GF3	17 / F05-F07	75 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	20 s
VR75.70B.GF3	17 / F05-F07	75 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	20 s
VS40.90A.GF3	22 / F05-F07	40 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS40.90B.GF3	22 / F05-F07	40 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VS70.90A.GF3	22 / F05-F07	70 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS70.90B.GF3	22 / F05-F07	70 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VS100.90A.GF3	22 / F05-F07	100 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS100.90B.GF3	22 / F05-F07	100 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	15 s
VS150.90A.GF3	22 / F05-F07	150 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	30 s
VS150.90B.GF3	22 / F05-F07	150 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	30 s
VS300.90A.GF3	22 / F05-F07	300 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	60 s
VS300.90B.GF3	22 / F05-F07	300 Nm	15 V to 30 V 50/60 Hz (12 V to 48 V DC)	45 W	60 s

Combined system BBPR system and 3 position electric control «GFS»

Code	Star drive nut / Connection	Torque	Voltages	Power	Operating time (90°)
VR25.70A.GFS	17 / F05-F07	25 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	7 s
VR25.70B.GFS	17 / F05-F07	25 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	7 s
VR45.70A.GFS	17 / F05-F07	45 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VR45.70B.GFS	17 / F05-F07	45 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VR75.70A.GFS	17 / F05-F07	75 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	20 s
VR75.70B.GFS	17 / F05-F07	75 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	20 s
VS40.90A.GFS	22 / F05-F07	40 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS40.90B.GFS	22 / F05-F07	40 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VS70.90A.GFS	22 / F05-F07	70 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS70.90B.GFS	22 / F05-F07	70 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VS100.90A.GFS	22 / F05-F07	100 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	15 s
VS100.90B.GFS	22 / F05-F07	100 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	15 s
VS150.90A.GFS	22 / F05-F07	150 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	30 s
VS150.90B.GFS	22 / F05-F07	150 Nm	24 V to 30 V 50/60 Hz (24 V to 48 V DC)	45 W	30 s
VS300.90A.GFS	22 / F05-F07	300 Nm	100 V to 240 V 50/60 Hz (100 V to 350 V DC)	45 W	60 s
VS300.90B.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, please consider x1.5 safety factor (2x for POSI models)

Options compatibility

Code	Standard multivolt G00	Standard 400 V R00	BBPR GS6	POSI GP5	POSI-Modbus-RTU GP8	POSI-BBPR GPS	3 positions GF3	3-POSITIONS-BBPR GFS
EPR....B Feedback potentiometer	•	•						
EPT.C Signal transmitter (operating time >10 s)	•	•						
EFC.2 2 additional switches	•	•						
LC Local control box	•							
BLUETOOTH® Wireless control via Axmart	•		standard		standard	standard		standard
ECA Aluminium cover	•	•	•	•	•	•	•	•
IP10 10 metres 72 hours IP68 tightness	• (VS)	• (VS)	• (VS)	• (VS)	• (VS)	• (VS)	• (VS)	• (VS)
MARINE Norsok M-501 system 6A coating	•	•	•	•	•	•	•	•
VIB Vibration proof	•	•	•	•	•	•	•	•
HUMPRO Varnished electronic boards	•		•	•	•	•	•	•
MODBUS Modbus-RTU control	• (1)		•		standard	•	• (1)	•
LMO.F05F07 Padlockable manual override	• (VR)	• (VR)	• (VR)	• (VR)	• (VR)	• (VR)	• (VR)	• (VR)
ECM.4 4P M12 connector for power supply	• (2)		• (2)	• (2)	• (2)	• (2)	• (2)	• (2)
ECM.8 8P M12 connector for feedback and options	• (3)		• (3)	• (3)	• (3)	• (3)	• (3)	• (3)
NPT.2 & NPT.3 2 or 3 ISO to 1/2" NPT adapters	•	•	•	•	•	•	•	•
MULTI 24 P+T connector	•	• (4)	•	•	•	•	•	•

(1) The feedback switches are not available
(2) ECM.4: 24 V 50/60 Hz and 24 V DC maximum
(3) ECM.8: 24 V 1.5 A maximum
(4) Consult us

Code	EPT.C	EFC.2	LC	BLUETOOTH®	ECA	IP10	MARINE	VIB	HUMPRO	MODBUS	LMO.F05F07	ECM.4	ECM.8	NPT.2	NPT.3	MULTI
EPR...B Feedback potentiometer	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
EPT.C Signal transmitter (operating time >10 s)		✗	✓	✓	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
EFC.2 2 additional switches			✓	✓	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
LC Local control box				✓	✓	✗	✗	✓	✓	✗	✓	✗	✗	✓	✓	✓
BLUETOOTH® Wireless control via Axmart					✓	✓	✓	✗	✓	Ⓝ (2) (3)	✓	✓	✓	✓	✓	✓
ECA Aluminium cover						Ⓝ (4)	Ⓝ (4)	✓	✓	✓	✓	✓	✓	✓	✓	✓
IP10 10 meters 72 hours IP68 tightness							✓	✓	✓	✓	✓	✗	✗	✓	✓	✓
MARINE Norsok M-501 system 6A coating								✓	✓	✓	✓	✓	✓	✓	✓	✓
VIB Vibration proof									✓	✓	✗	✓	✓	✓	✗	✗
HUMPRO Varnished electronic boards										✓	✓	✓	✓	✓	✓	✓
MODBUS Modbus-RTU control											✓	✓	Ⓝ (1)	✓	✓	✓
LMO.F05F07 Padlockable manual override												✓	✓	✓	✓	✓
ECM.4 4P M12 connector for power supply													✓	✗	✗	✗
ECM.8 8P M12 connector for feedback and options														✗	✗	✗
NPT.2 2 ISO to 1/2" NPT adapters															✗	✗
NPT.3 3 ISO to 1/2" NPT adapters																✓

- (1) The feedback switches are not available
(2) Only for BBPR, POSI-BBPR and 3-POSITION-BBPR
(3) As standard on POSI-Modbus version
(4) ECA option (aluminium cover) included in MARINE and IP10 options



The descriptions and photographs contained in this product specification sheet are supplied by way of information only and are not binding. Valpes reserves the right to carry out any technical and design improvements to its products without prior notice. Warranty : All sales and contracts for sale are expressly conditioned on the buyer's assent to Valpes terms and conditions found on its website at www.valpes.com. Valpes hereby objects to any term, different from or additional to its terms, contained in any buyer communication in any form, unless agreed to in a writing signed by an officer of Valpes.



Valpes sas

Z.I. Centr'alp, 89 ruze des étangs • 38430 Moirans • France
Tel. +33 04 76 35 06 06 • Fax +33 04 76 35 14 34
Valpes-info@wattswater.com • www.valpes.com