

VR•VS

Quarter-turn electric actuator





Industry



Energy

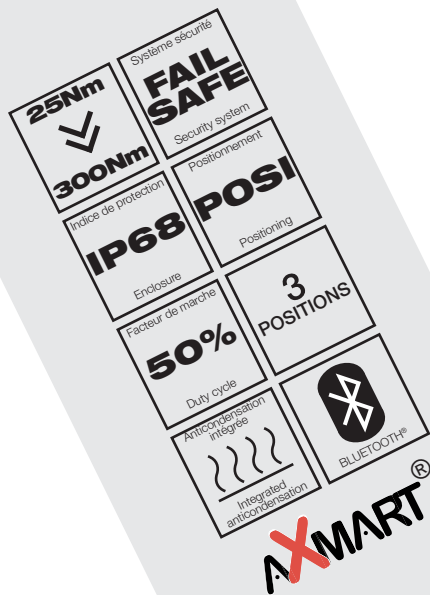


Irrigation



Water treatment





COMPACT DESIGN

PA6 UL 94 V-0 non-flammable polyamide or aluminium + epoxy housing
Modular position indicator (VR) or spherical (VS)

TORQUES FROM 25 TO 300Nm

MULTIVOLTAGES
100V-240V 50/60Hz and 100V-350V DC | 15V-30V 50/60Hz and 12V-48V DC | 50/60Hz 3-phase 400V

NUMEROUS CONTROL MODES
Modulating 3-point control | On-Off | Pulse control | Bluetooth®

DUTY CYCLE S4-50%

ELECTRONICAL TORQUE LIMITER

ISO 5211 STANDARD CONNECTION PLATE
F05-F07 | F07-F10 • Star 17mm and 22mm • Stainless steel conversion sleeves

IP68 | -20°C TO +70°C

RS485 TERMINAL

FAILURE MODE
Actuator status

MANUAL OVERRIDE
External shaft (VR) | hand wheel (VS)

FAILSAFE
Security battery unit

POSITIONING
4-20mA | 0-10V

3 POSITIONS
POWERED BY AXMART®
Bluetooth® communication:
Local control, setup and weekly scheduling

ANTICONDENSATION HEATER
Self-regulated 10W

CE • RoHs • REACH • ATEX • CSA • EAC Ex

WARRANTY
3-year warranty or 50 000 actuations

DES

Light, compact and resistant, IP68, UL 94 V-0 flammability class housing

Modular position indicator depending on type of valve to be actuated (VR) or spherical indicator (VS)

ISO 5211 connection plate

- VR = F05/F07 star 17mm
- VS = F07/F10 star 22mm
- Stainless steel conversion sleeves (star - square - DD)

Various possible rotations

- 4 electrical limit switches including 2 au
- Mechanical stops as standard for 90°

Options

- Card with two extra limit switches (EFC.2)
- Feedback potentiometer (EPR.B)
- 1 or 2 3P+T M12 connectors (ECM.1 or ECM.2)
- 0-10V, 0-20mA or 4-20mA transmitter (EPT.C)
- ISO M20 / 1/2"

POSITIONING version

Actuator with advanced and easily positioning solution, allowing the control of a valve with a signal: 0-10V or 4-20mA. For applications like dosing, modulating, flow control, filling up (increases the accuracy in the last stage), mixing...

- Self-configurable
- Reversible signal (example: 20-4mA)
- Training mode
- Failure report

FAILSAFE Version

Actuator with integrated FAILSAFE function, allowing the control of a valve in case of power failure

- 24/7 battery charge indicator
- Power shut off after 3 min to
- 2 initial position settings: "no

3-POSITION Version

Actuator with 3rd position card, allowing an intermediate stop of the actuator between 0° and 180° (or 0° and 90° or 0° and 270°). Can be used to stop the actuator at 90° in case of a 180° 3-way valve or for any other application requiring a partial closing before full closing.

- Quick and easy setup
- 7 limit switches
- Failure report
- Rotation up to 180° (or 270° on request)

BLUETOOTH® V

The Valpes Bluetooth® communication module enables the control of actuators. It enables the communication even when concealed (actuators in a cabinet).

- In all situations, this interface is available
- Installation control actuator
- Installation servicing, function and the AXMART® application
- Weekly scheduler (up to 20
- Simple and cost effective! No cabinet nor control operator is

POSI-SAFE Version

All in one actuator, integrating FAILSAFE and positioning functions

3-POSITION-SAFE

All in one actuator, integrating

ATEX



Standard • CSA

SIGNED AND BUILT...

...FOR DIFFICULT APPLICATIONS

ing

on angles

auxiliaries for the feedback information
(180° or 270° without mechanical stop)

2 NPT adapters (NPT.1)

ion

SAFE security unit ensuring return to initial position in case

or with reporting relay
to avoid battery discharging
"normally open" or "normally closed"

Version AXMART®

communication module offers a secured connection with the
communication with any actuator, whether visible or not and
located under floor, in a pit, above ceiling, at height).

is perfect as a local control device.

status in real time

oning tests and validation with a smartphone or a tablet

tion

repeatable tasks per week)

neither programmable logic controller (PLC) - electric ca-

required

SAFE Version

FAILSAFE and 3-position functions



Marine

VR25

Maximum torque
25Nm

90° operating time
7s
400V : 10s

Star drive nut
17mm
depth 19mm

ISO 5211 connection
F05 | F07
depth 15mm | 17mm

Number of limit switches
4

Rotation angle
90°

Duty cycle
50%

Number of starts / hour
150

Temperature
-20°C to +70°C

IP enclosure
IP68

Weight
3.1kg to 4.4kg

VR45

Maximum torque
45Nm

90° operating time
15s
400V : 10s

Star drive nut
17mm
depth 19mm

ISO 5211 connection
F05 | F07
depth 15mm | 17mm

Number of limit switches
4

Rotation angle
90°

Duty cycle
50%

Number of starts / hour
150

Temperature
-20°C to +70°C

IP enclosure
IP68

Weight
3.1kg to 4.4kg

VR75

Maximum torque
75Nm

90° operating time
20s
400V : 15s

Star drive nut
17mm
depth 19mm

ISO 5211 connection
F05 | F07
depth 15mm | 17mm

Number of limit switches
4

Rotation angle
90°

Duty cycle
50%

Number of starts / hour
150

Temperature
-20°C to +70°C

IP enclosure
IP68

Weight
3.1kg to 4.4kg



Machinery directive

2006/42/CE | component for incorporating



EMC electromag

2014/30/UE | EN61000-6



Applications with vibrations (on request)

Specific electronic cards according to IEC60068-2-6 (2007) and IEC60068-2-27



Explosive atmospheres approval

94/9/CE directive - II 2 G D - Ex d IIB T6 Gb - Ex tb IIIC T80°C Db - LC



VS100

Maximum torque
100Nm

90° operating time
15s
400V : 10s

Star drive nut
22mm
depth 25mm

ISO 5211 connection
F07 | F10
depth 19mm | 24mm

Number of limit switches
4

Rotation angle
90°

Duty cycle
50%

Number of starts / hour
150

Temperature
-20°C to +70°C

IP enclosure
IP68

Weight
5.1kg to 6.4kg

VS150

Maximum torque
150Nm

90° operating time
30s
400V : 20s

Star drive nut
22mm
depth 25mm

ISO 5211 connection
F07 | F10
depth 19mm | 24mm

Number of limit switches
4

Rotation angle
90°

Duty cycle
50%

Number of starts / hour
150

Temperature
-20°C to +70°C

IP enclosure
IP68

Weight
5.1kg to 6.4kg

VS300

Maximum torque
300Nm

90° operating time
60s
400V : 35s

Star drive nut
22mm
depth 25mm

ISO 5211 connection
F07 | F10
depth 19mm | 24mm

Number of limit switches
4

Rotation angle
90°

Duty cycle
50%

Number of starts / hour
150

Temperature
-20°C to +70°C

IP enclosure
IP68

Weight
5.1kg to 6.4kg

EMC compatibility

EN 61000-6-2 (2005) | EN 61000-6-4 (2011)



Low voltage directive

2006/95/CE | EN 61010-1 (2010)



IP68 housing tested

CEI 60529 (2013) | NF EN 60529 (2014)



Certified for marine applications

High durability painting, compliant with the NF EN ISO 12 944-1 standard and 15-year warranty



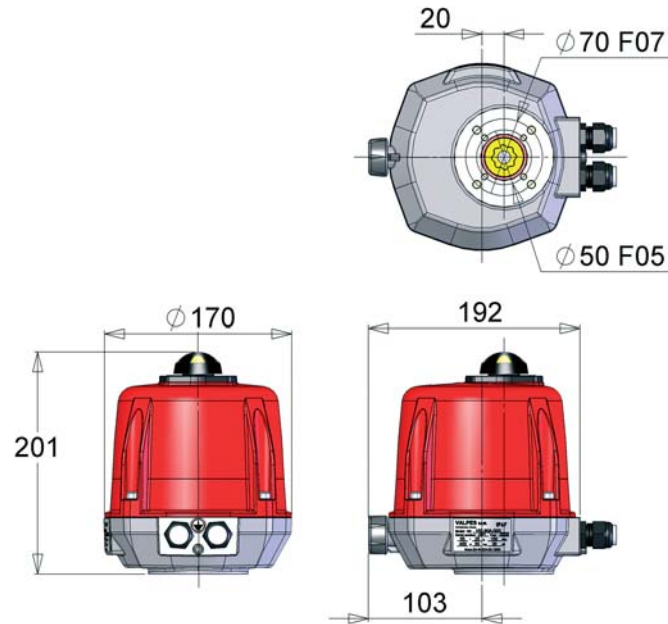
North America approval

CSA C22.2 No. 139-13 - UL 429:2013 • NEMA type 6

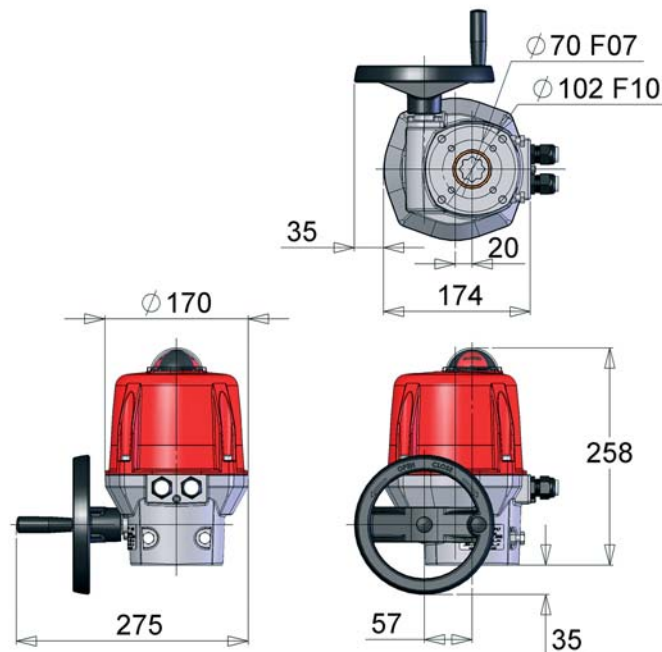
IEC 60060 ATEX 6006 X



VR25 • VR45 • VR75



VS100 • VS150 • VS300



Please refer to our technical literature for any further information.

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A **WATTS** Brand

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