

VT1500-2400

VT600-1000

VR

VS

VR  
25Nm  
↕  
75Nm

VS  
100Nm  
↕  
300Nm

VT  
600Nm  
↕  
2400Nm

Facteur de marche  
**50%**  
Duty rating

Indice de protection  
**IP68**  
Enclosure

Résistance de série  
  
Resistor in standard

VR / VS seulement - VR / VS only

Système sécurité  
**FAIL SAFE**  
Security system

Positionnement  
**POSI**  
Positioning

3 Positions  
**GF3**  
3 Positions

**DESCRIPTION**

Electric actuator, aluminium housing and polyamide UL94V0 or aluminium (option) cover with manual override by external shaft or hand wheel, for torques of 25 to 2400 mN and in accordance with CE-ROHS-REACH Directives

**STANDARD EQUIPMENT**

VR-VS: Multi-voltage actuator : 100-240V AC 50/60 Hz (100-350V DC) or 15-30V AC 50/60 Hz (12-48V DC) or 400V three phase  
VT: 400V three phase, 230V AC 50/60 Hz  
3 modulating points control or On-Off (except VT and 400V: 3 modulating points control only)  
4 adjustable limit switches 5A (VT = 16A)  
Double drilling F05/F07, F07/F10, F10/F12 or F14/F16 according to ISO5211 standard  
Removable star drive  
Manual override  
Torque limiter monitored by software (Except VT and 400V: mechanical torque limiter)  
Failure feedback relay (normal duty, failure), (Except VT and 400V).  
RS485 connection (Except 400V and VT).  
Mechanical limit stops (adjustable for VS and VT)  
Visual position indicator  
Regulated heating resistor 10W

**VERSIONS**

90° standard version. Contact us for an angle between 90° and 270°

**TECHNICAL DATA**

Duty rating : 50% (CEI34) - (80% on request)  
Working temperature: -20°C to +70°C  
Enclosure: IP68  
Weight: VR = 3,1Kg to 4,4Kg, VS = 5,1Kg to 6,4Kg  
VT600-1000 = 24Kg, VT1500-2400 = 54Kg,



Please consider 1.5 safety factor (and 2.0 safety factor for POSI version) when sizing the actuator.

## GAMME STANDARD - STANDARD RANGE

CODE	Étoile / Fixation* Star drive nut / Connection	Couple Torque	Plages de tensions Voltage supplies	Puissance Power	Temps de manœuvre operating time
VR25.70A.G00	17 F05/F07	25Nm	100V à/to 240V 50/60Hz (100V à/to 350V DC)	45W	7s
VR25.70B.G00	17 F05/F07	25Nm	15V à/to 30V 50/60Hz (12V à/to 48V DC)	45W	7s
VR45.70A.G00	17 F05/F07	45Nm	100V à/to 240V 50/60Hz (100V à/to 350V DC)	45W	15s
VR45.70B.G00	17 F05/F07	45Nm	15V à/to 30V 50/60Hz (12V à/to 48V DC)	45W	15s
VR75.70A.G00	17 F05/F07	75Nm	100V à/to 240V 50/60Hz (100V à/to 350V DC)	45W	20s
VR75.70B.G00	17 F05/F07	75Nm	15V à/to 30V 50/60Hz (12V à/to 48V DC)	45W	20s
VS100.90A.G00	22 F07/F10	100Nm	100V à/to 240V 50/60Hz (100V à/to 350V DC)	45W	15s
VS100.90B.G00	22 F07/F10	100Nm	15V à/to 30V 50/60Hz (12V à/to 48V DC)	45W	15s
VS150.90A.G00	22 F07/F10	150Nm	100V à/to 240V 50/60Hz (100V à/to 350V DC)	45W	30s
VS150.90B.G00	22 F07/F10	150Nm	15V à/to 30V 50/60Hz (12V à/to 48V DC)	45W	30s
VS300.90A.G00	22 F07/F10	300Nm	100V à/to 240V 50/60Hz (100V à/to 350V DC)	45W	60s
VS300.90B.G00	22 F07/F10	300Nm	15V à/to 30V 50/60Hz (12V à/to 48V DC)	45W	60s

## GAMME 400V TRIPHASÉ - THREE-PHASE 400V RANGE

CODE	Étoile / Fixation* Star drive nut / Connection	Couple Torque	Plages de tensions Voltage supplies	Puissance Power	Temps de manœuvre operating time
VR25.709.R00	17 F05/F07	25Nm	400V TRI	52W	10s
VR45.709.R00	17 F05/F07	45Nm	400V TRI	52W	10s
VR75.709.R00	17 F05/F07	75Nm	400V TRI	52W	15s
VS100.909.R00	22 F07/F10	100Nm	400V TRI	135W	10s
VS150.909.R00	22 F07/F10	150Nm	400V TRI	135W	20s
VS300.909.R00	22 F07/F10	300Nm	400V TRI	135W	35s

## GAMME VT - VT RANGE

CODE	Étoile / Fixation* Star drive nut / Connection	Couple Torque	Plages de tensions Voltage supplies	Puissance Power	Temps de manœuvre operating time
VT600.A08.G00	36 F10/F12	600Nm	230V AC	250W	38s
VT1000.A08.G00	36 F10/F12	1000Nm	230V AC	250W	38s
VT1500.B08.G00	46 F14/F16	1500Nm	230V AC	250W	113s
VT2400.B08.G00	46 F14/F16	2400Nm	230V AC	250W	113s
VT600.A09.R00	36 F10/F12	600Nm	400V TRI	250W	38s
VT1000.A09.R00	36 F10/F12	1000Nm	400V TRI	250W	38s
VT1500.B09.R00	46 F14/F16	1500Nm	400V TRI	250W	113s
VT2400.B09.R00	46 F14/F16	2400Nm	400V TRI	250W	113s

## OPTIONS

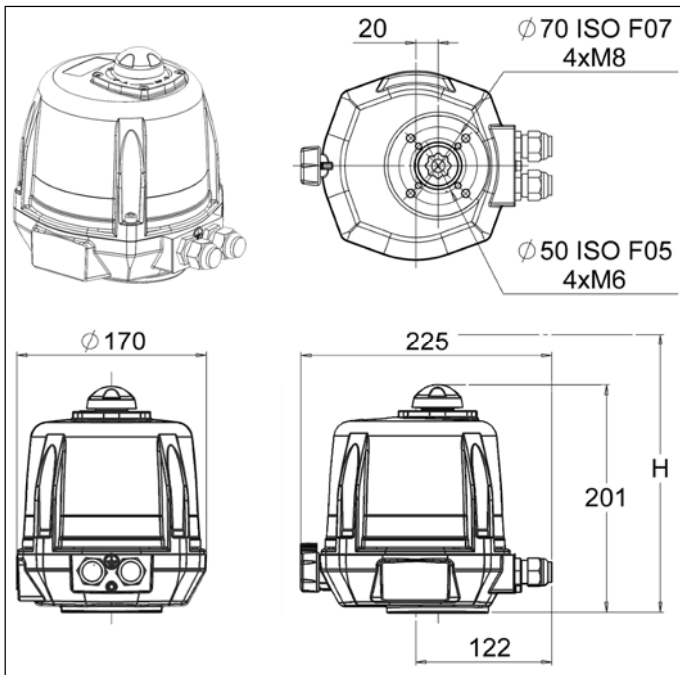
CODE	OPTIONS
EPR...B*	Potentiomètre de recopie / feedback potentiometer 100 / 1000 / 5000 / 10000 Ohms
EPT.C	Transmetteur 0-20mA, 4-20mA ou 0-10V / 0-20mA, 4-20mA or 0-10V transmitter
EFC.2	Carte deux contacts supplémentaires / 2 Extra limit switches card
ECM.1	1 Connecteur / one connector M12
ECM.2	2 Connecteurs / 2 connectors M12

\* Précisez le modèle / Specify the model

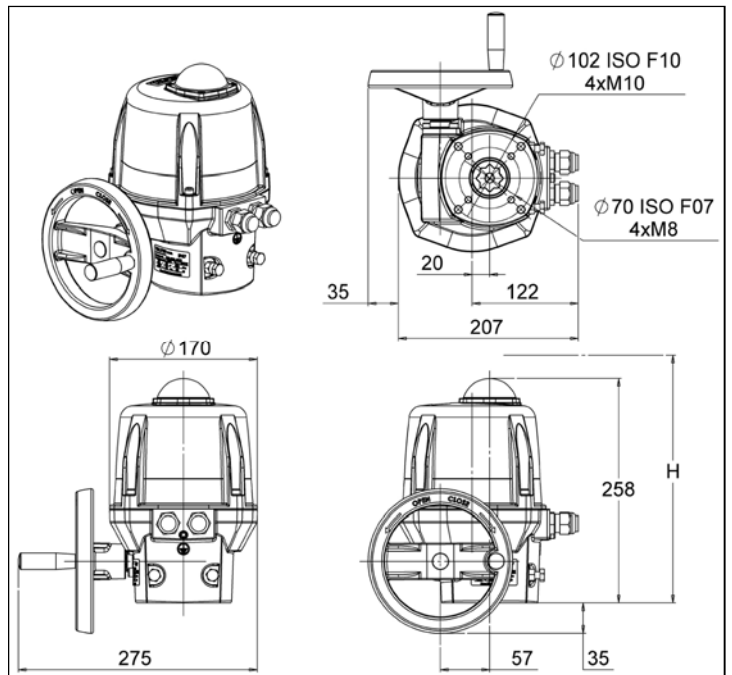
## COMPATIBILITÉ DES OPTIONS - OPTIONS COMPATIBILITY TABLE

	Option 1	Option 2	option 3	Course de 0° à 90°/180°/270° Travel from 0° to 90°/180°/270°
	ECA	EPR.B ou/ou EPT.C ou/ou EFC.2	ECM.1 ou/ou ECM.2	
VR/VS STANDARD	X	X	X	X
VR/VS FAILSAFE	X	X	X	X
VR/VS POSI	X		X	X
VR/VS GF3	X			X

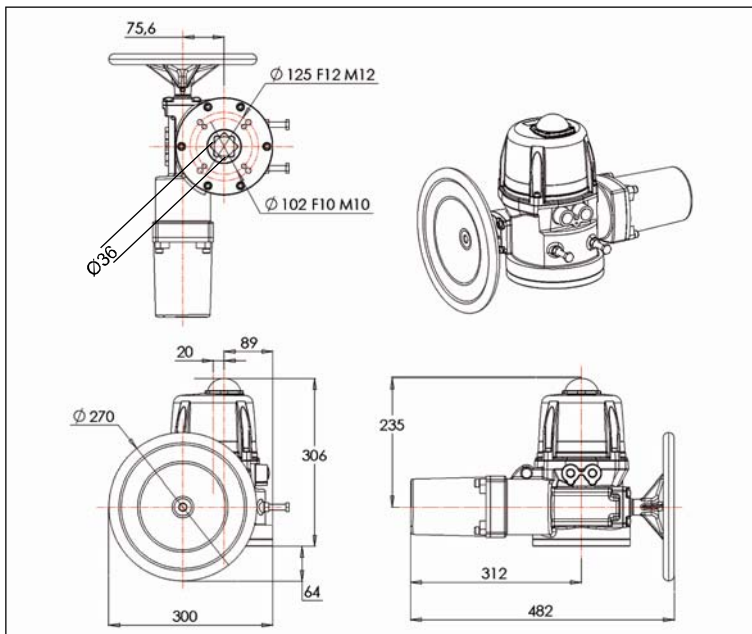
TYPE : VR



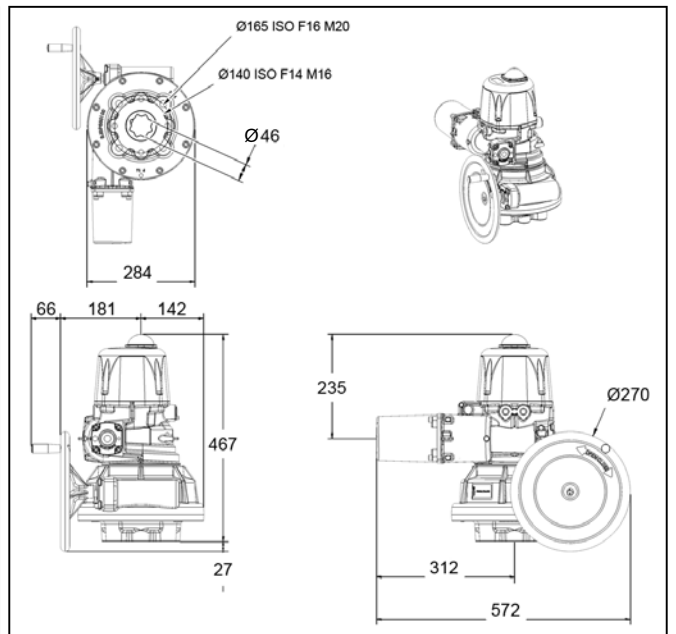
TYPE : VS



TYPE : VT 600-1000




TYPE : VT 1500-2400



# FAILSAFE

VR/VS series with integrated FAILSAFE security unit witch ensures return to initial position in case of power failure.

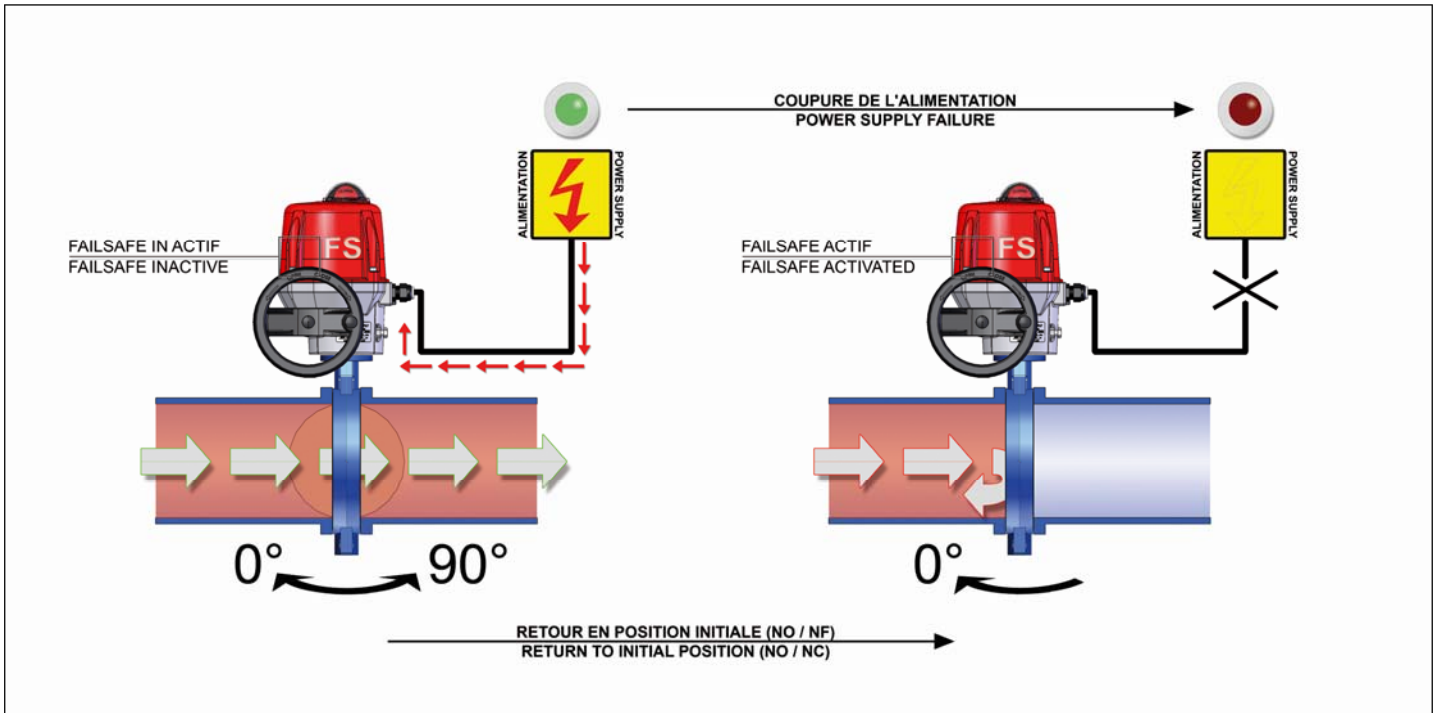


Système sécurité  
**FAIL  
SAFE**  
Security system

Advantages:

- All in one: no additional wiring required
- Cost effective
- Battery gauge active 24H/24H
- Power shut off after 2 mn to avoid battery discharging
- Quick and easy replacement of the battery
- 2 initial position settings: "normally open" or "normally closed"
- Battery failure feedback relai

## Working principle



# FAILSAFE

Failsafe option integrate battery pack monitored by electronic board in the actuator. Its function is to relay in case of power supply failure on terminal PIN 1, 2 and 3 of the actuator.

The fail safe option could be set on different position like normally open (NO) or normally close (NC) depends on customer application.

The electronic board monitors the battery pack and check the status of battery (cycle load and failure). If a battery failure is detected , a contact on PIN 66 and 66 switch off .If customer use this contact he could be aware that there is a failure on battery in the actuator without remove cover and plan the replacement.

Failsafe option required ON/OFF mode.

CODE	Étoile / Fixation* Star drive nut / Connection	Couple Torque	Plages de tensions Voltage supplies	Puissance Power	Temps de manœuvre operating time
<b>VR25.70A.GS2</b>	17 F05/F07	25Nm	100V à/to 240V 50/60Hz (100V à/to 350V DC)	45W	7s
<b>VR25.70B.GS2</b>	17 F05/F07	25Nm	15V à/to 30V 50/60Hz (12V à/to 48V DC)	45W	7s
<b>VR45.70A.GS2</b>	17 F05/F07	45Nm	100V à/to 240V 50/60Hz (100V à/to 350V DC)	45W	15s
<b>VR45.70B.GS2</b>	17 F05/F07	45Nm	15V à/to 30V 50/60Hz (12V à/to 48V DC)	45W	15s
<b>VR75.70A.GS2</b>	17 F05/F07	75Nm	100V à/to 240V 50/60Hz (100V à/to 350V DC)	45W	20s
<b>VR75.70B.GS2</b>	17 F05/F07	75Nm	15V à/to 30V 50/60Hz (12V à/to 48V DC)	45W	20s
<b>VS100.90A.GS2</b>	22 F07/F10	100Nm	100V à/to 240V 50/60Hz (100V à/to 350V DC)	45W	15s
<b>VS100.90B.GS2</b>	22 F07/F10	100Nm	15V à/to 30V 50/60Hz (12V à/to 48V DC)	45W	15s
<b>VS150.90A.GS2</b>	22 F07/F10	150Nm	100V à/to 240V 50/60Hz (100V à/to 350V DC)	45W	30s
<b>VS150.90B.GS2</b>	22 F07/F10	150Nm	15V à/to 30V 50/60Hz (12V à/to 48V DC)	45W	30s
<b>VS300.90A.GS2</b>	22 F07/F10	300Nm	100V à/to 240V 50/60Hz (100V à/to 350V DC)	45W	60s
<b>VS300.90B.GS2</b>	22 F07/F10	300Nm	15V à/to 30V 50/60Hz (12V à/to 48V DC)	45W	60s

# FAILSAFE

## ELECTRIC WIRING

